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## **South Australia, patient outcomes in palliative care, January - June 2015**

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## South Australia, patient outcomes in palliative care, January - June 2015

### Abstract

The Palliative Care Outcomes Collaboration (PCOC) is a national program that utilises standardised clinical assessment tools to measure and benchmark patient outcomes in palliative care. Participation in PCOC is voluntary and can assist palliative care service providers to improve practice. This is achieved via the PCOC patient outcome improvement framework which is designed to: \* provide clinicians with the tools to systematically assess individual patient experiences using validated clinical assessment tools, \* define a common clinical language to streamline communication between palliative care providers, \* facilitate the routine collection of national palliative care data to drive quality improvement through reporting and benchmarking, \* provide service-to-service benchmarking reports and opportunities to discuss sector results at benchmarking workshops, and \* support research using the PCOC longitudinal database (2006-2015).

### Keywords

january, june, 2015, patient, palliative, outcomes, care, south, australia

### Publication Details

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South Australia

# Patient Outcomes in Palliative Care

January – June 2015

September 2015

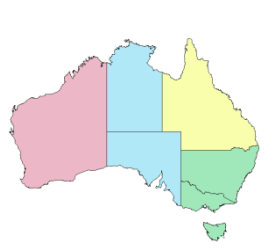




## About the Palliative Care Outcomes Collaboration

The Palliative Care Outcomes Collaboration (PCOC) is a national program that utilises standardised clinical assessment tools to measure and benchmark patient outcomes in palliative care. Participation in PCOC is voluntary and can assist palliative care service providers to improve practice. This is achieved via the PCOC patient outcome improvement framework which is designed to:

- provide clinicians with the tools to systematically assess individual patient experiences using validated clinical assessment tools,
- define a common clinical language to streamline communication between palliative care providers,
- facilitate the routine collection of national palliative care data to drive quality improvement through reporting and benchmarking,
- provide service-to-service benchmarking reports and opportunities to discuss sector results at benchmarking workshops, and
- support research using the PCOC longitudinal database (2006-2015).

The PCOC dataset includes the clinical assessment tools: Palliative Care Phase, Palliative Care Problem Severity Score (PCPSS), Symptom Assessment Scale (SAS), Australia-modified Karnofsky Performance Status (AKPS) scale and Resource Utilisation Groups – Activities of Daily Living (RUG-ADL).

PCOC has divided Australia into four zones for the purpose of engaging with palliative care service providers. Each zone is represented by a chief investigator from one of the collaborative centres. The four PCOC zones and their respective chief investigators are:

	Central Zone		<b>Professor Kathy Eagar</b> , Australian Health Services Research Institute, University of Wollongong
	North Zone		<b>Professor Patsy Yates</b> , Institute of Health and Biomedical Innovation, Queensland University of Technology
	South Zone		<b>Professor David Currow</b> , Department of Palliative and Supportive Services, Flinders University
	West Zone		<b>Dr Claire Johnson</b> , Cancer and Palliative Care Research and Evaluation Unit, University of WA

Each zone is also represented by one or more quality improvement facilitators, whose role includes supporting services to participate in PCOC and facilitating ongoing service development and quality improvement. The national team, located within the Australian Health Services Research Institute at the University of Wollongong, coordinates the patient outcomes reporting, education program, and quality activities across the four zones.

***If you would like more information or have any queries about this report please contact  
your local quality improvement facilitator  
or contact the national office at [pcoc@uow.edu.au](mailto:pcoc@uow.edu.au) or phone (02) 4221 4411.***

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## Introduction

The Palliative Care Outcomes Collaboration (PCOC) assists services to improve the quality of the palliative care they provide through the analysis and benchmarking of patient outcomes. In this patient outcome report, data submitted for the January to June 2015 period are summarised and patient outcomes benchmarked. The purpose of benchmarking is to drive palliative care service innovation and provide participating services with the opportunity to compare their service nationally.

Patient outcomes are reported for a total of 19,220 patients, with 24,180 episodes of care and 55,991 palliative care phases. The information included in this report is determined by a data scoping method. See Appendix A for more information on the data included in this report.

Throughout this report, patient information for South Australian services is presented alongside the national figures for comparative purposes. The national figures are based on information submitted by 100 services, of which:

- 59 are inpatient services. Inpatient services include patients who have been seen in designated palliative care beds as well as non-designated bed consultations.
- 28 are community services. These services include primarily patients seen in the community as well as some patients with ambulatory/clinic episodes.
- 13 are services with both inpatient and community settings.

The South Australian figures in this report are based on information submitted by 12 services. A list of these services is presented in Table 1 on the following page. A full list of the services included in the national figures can be found at [www.pcoc.org.au](http://www.pcoc.org.au).

### ***Interpretation hint:***

Some tables throughout this report may be incomplete. This is because some items may not be applicable or it may be due to data quality issues.

Please use the following key when interpreting the tables:

- |           |                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------|
| <b>na</b> | <b>The item is not applicable.</b>                                                              |
| <b>u</b>  | <b>The item was unavailable.</b>                                                                |
| <b>s</b>  | <b>The item was suppressed due to insufficient data as there was less than 10 observations.</b> |

**Table 1** *List of South Australian services included in this report*

Service name	Setting of care
Adelaide Hills Community Health Service	Community
Calvary Health Care Adelaide (Mary Potter Hospice)	Inpatient
Central Adelaide Palliative Service	Inpatient and community
Inner North Palliative Care	Community
Murray Mallee	Community
Northern Adelaide Palliative Service	Inpatient and community
Port Pirie Regional Health Service	Community
Riverland Palliative Care Service	Community
South Coast Palliative Care Service	Community
South East Regional Community Health Service	Community
Whyalla Palliative Care Service	Inpatient and community
Yorke Peninsula Palliative Care	Community

## Section 1 Benchmark summary

### 1.1 South Australian services at a glance

*Table 2 Summary of outcome measures 1 to 3 by setting*

Outcome measure	Description	Benchmark	Inpatient		Community	
			SA Score	Benchmark Met?	SA Score	Benchmark Met?
1. Time from date ready for care to episode start	Benchmark 1: Patients episode commences on the day of, or the day after date ready for care	90%	95.0	Yes	76.5	No
2. Time in unstable phase	Benchmark 2: Patients in the unstable phase for 3 days or less	90%	90.0	Yes	73.6	No
3. Change in pain	Benchmark 3.1: PCPSS Patients with absent or mild pain at phase start, remaining absent or mild at phase end	90%	89.0	No	82.2	No
	Benchmark 3.2: PCPSS Patients with moderate or severe pain at phase start, with absent or mild pain at phase end	60%	63.4	Yes	52.0	No
	Benchmark 3.3: SAS Patients with absent or mild distress from pain at phase start, remaining absent or mild at phase end	90%	86.1	No	76.4	No
	Benchmark 3.4: SAS Patients with moderate or severe distress from pain at phase start, with absent or mild at phase end	60%	55.2	No	39.8	No

*Table 3 Summary of outcome measure 4: Average improvement on the 2014 baseline national average (X-CAS)*

Clinical Tool	Description	Average improvement on baseline	Benchmark met?
PCPSS	Benchmark 4.1: Pain	-0.04	No
	Benchmark 4.2: Other symptoms	-0.03	No
	Benchmark 4.3: Family / carer	-0.05	No
	Benchmark 4.4: Psychological / spiritual	0.03	Yes
SAS	Benchmark 4.5: Pain	-0.23	No
	Benchmark 4.6: Nausea	-0.16	No
	Benchmark 4.7: Breathing problems	-0.18	No
	Benchmark 4.8: Bowel problems	-0.33	No

The benchmark for  
outcome measure 4 is zero.

For more information on the outcome measures  
and benchmarks, see Section 2.

## 1.2 National benchmark profiles

In this section, the national profiles for selected benchmarks are split by setting (inpatient or community) and presented graphically.

The selected benchmarks included are:

- Benchmark 1 Patients episode commences on the day of or the day after date ready for care
- Benchmark 2 Patients in the unstable phase for 3 days or less
- Benchmark 3.1 PCPSS: Patients with absent or mild pain at phase start, remaining absent or mild at phase end
- Benchmark 3.2 PCPSS: Patients with moderate or severe pain at phase start, with absent or mild pain at phase end
- Benchmark 3.3 SAS: Patients with absent or mild distress from pain at phase start, remaining absent or mild at phase end
- Benchmark 3.4 SAS: Patients with moderate or severe distress from pain at phase start, with absent or mild distress from pain at phase end

### ***Interpretation hint:***

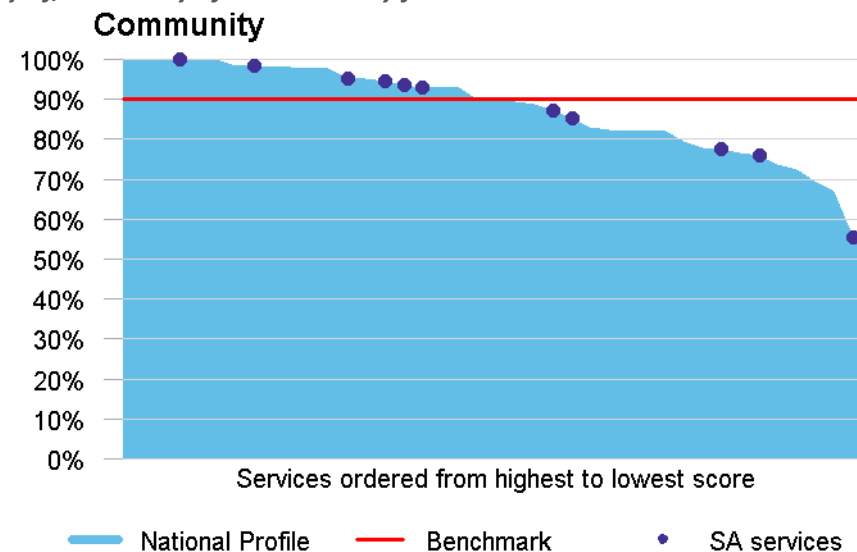
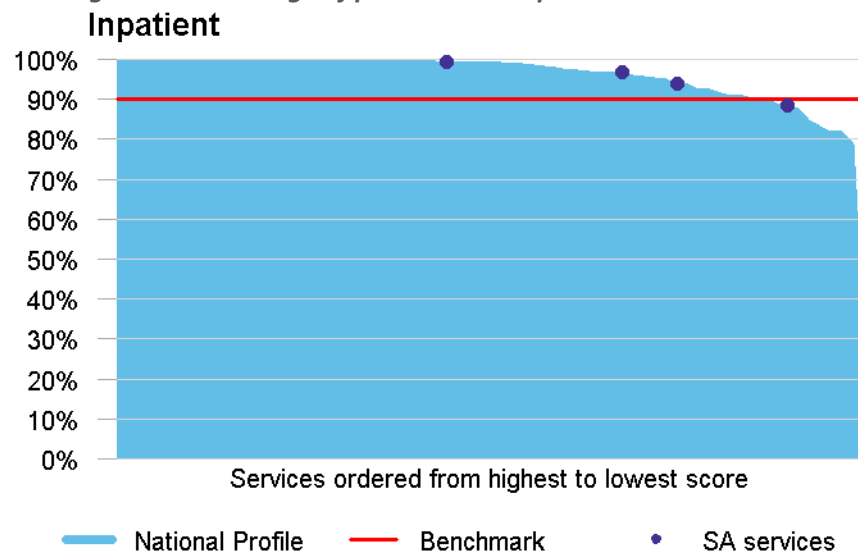
The national profile graphs on the following pages present South Australian services in comparison to other palliative care services participating in PCOC. In each graph, the shaded region describes the national profile for that outcome measure. South Australian services are highlighted as dots on the graph.

If a dot is missing on a particular graph, this means that a service has not met the criteria for inclusion in this measure. This may be caused by insufficient data item completion, or the service not having any data falling into a particular category, for example, no phases starting with moderate or severe pain.

The red line on the graph indicates the benchmark for that outcome measure.

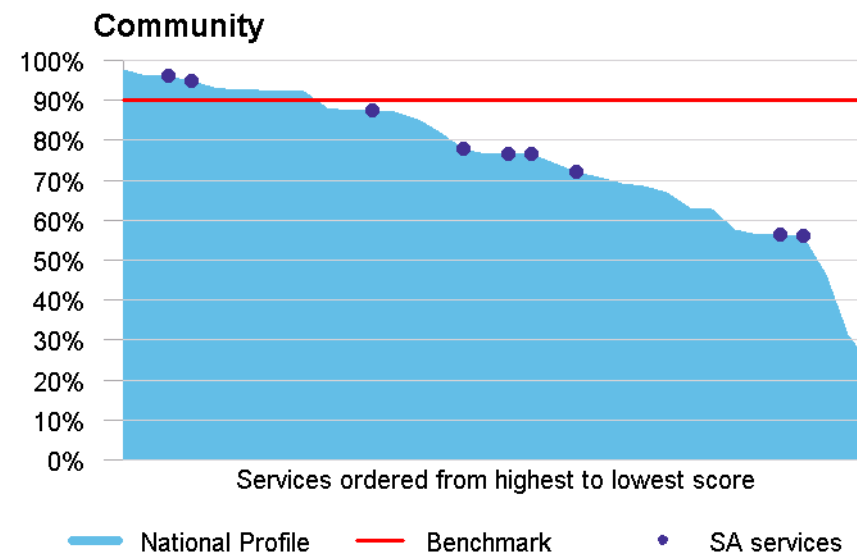
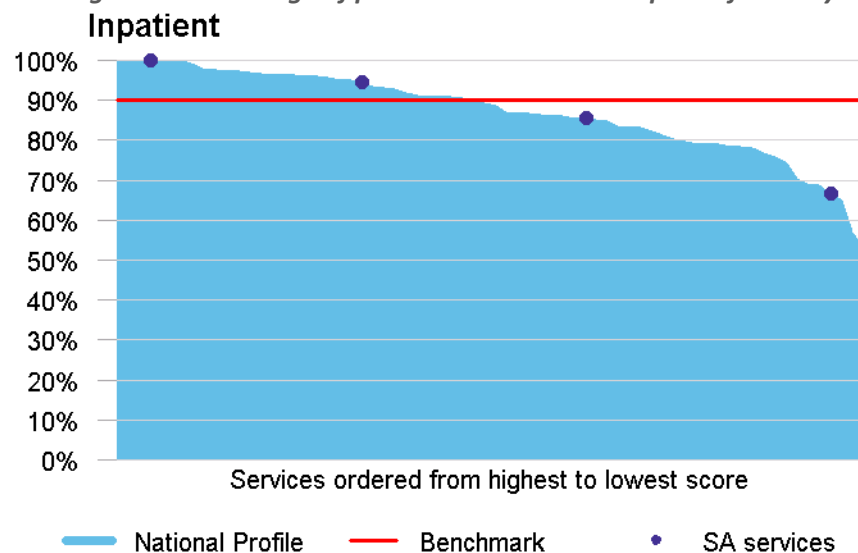
## Outcome measure 1 – Time from date ready for care to episode start

*Figure 1 Percentage of patients with episodes that commenced on the day of, or the day after date ready for care*



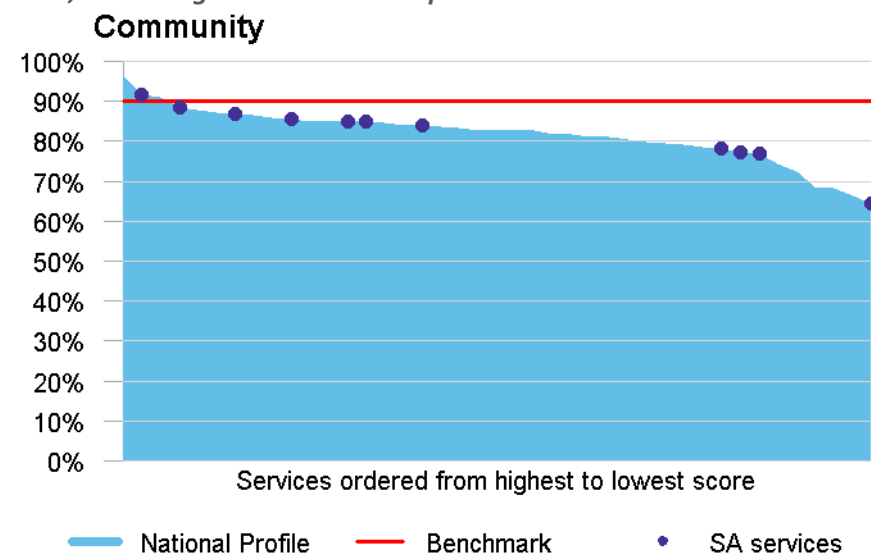
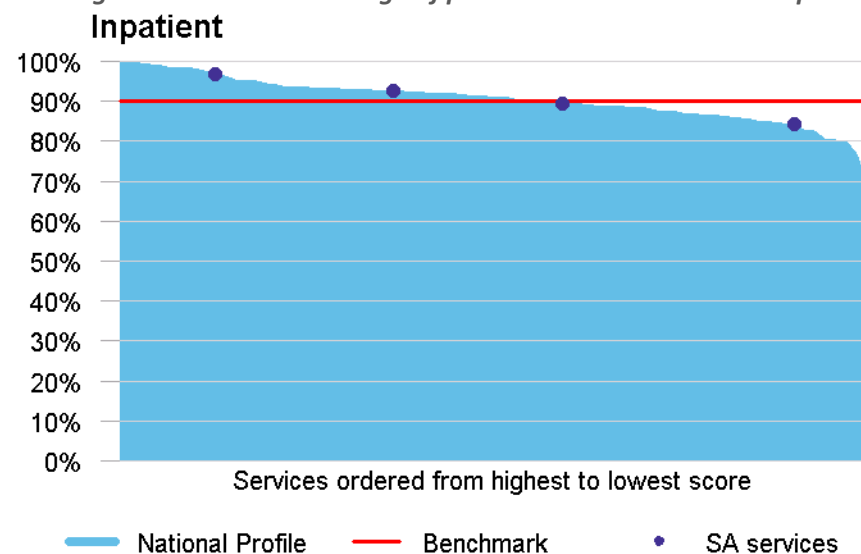
## Outcome measure 2 – Time in unstable phase

*Figure 2 Percentage of patients in the unstable phase for 3 days or less*

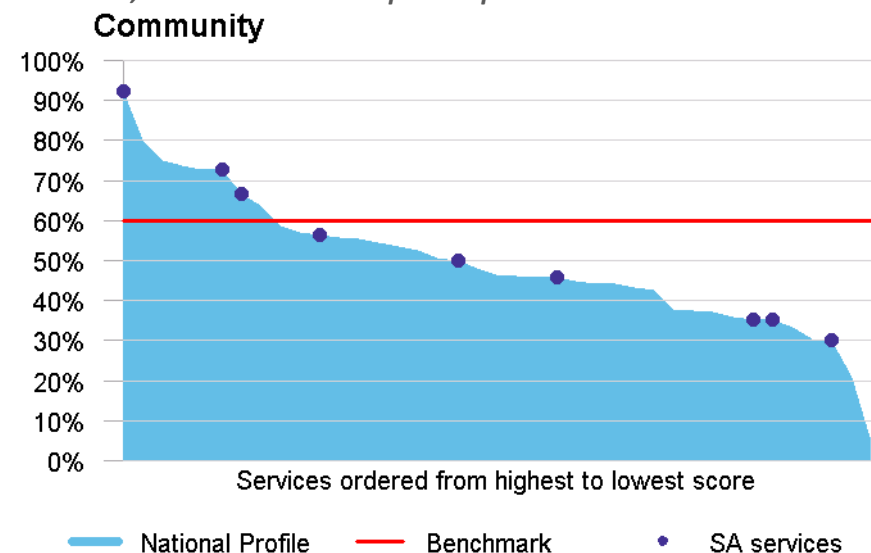
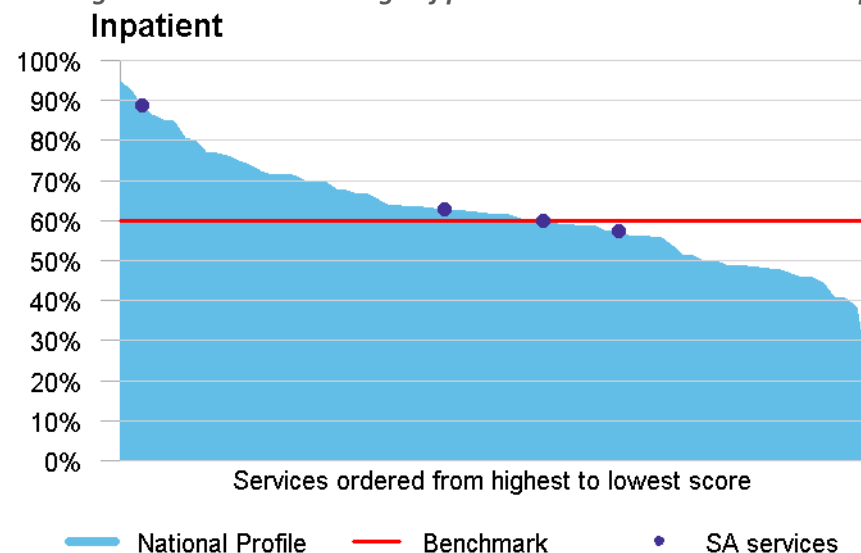


### Outcome measure 3 – Change in pain

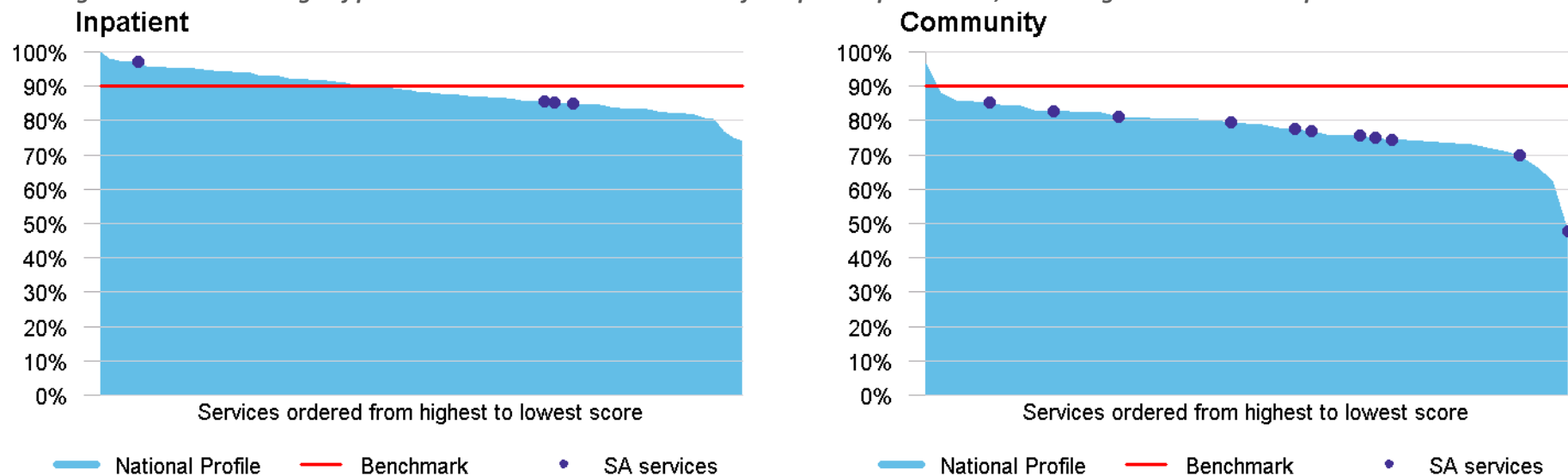
*Figure 3 PCPSS: Percentage of patients with absent or mild pain at phase start, remaining absent or mild at phase end*



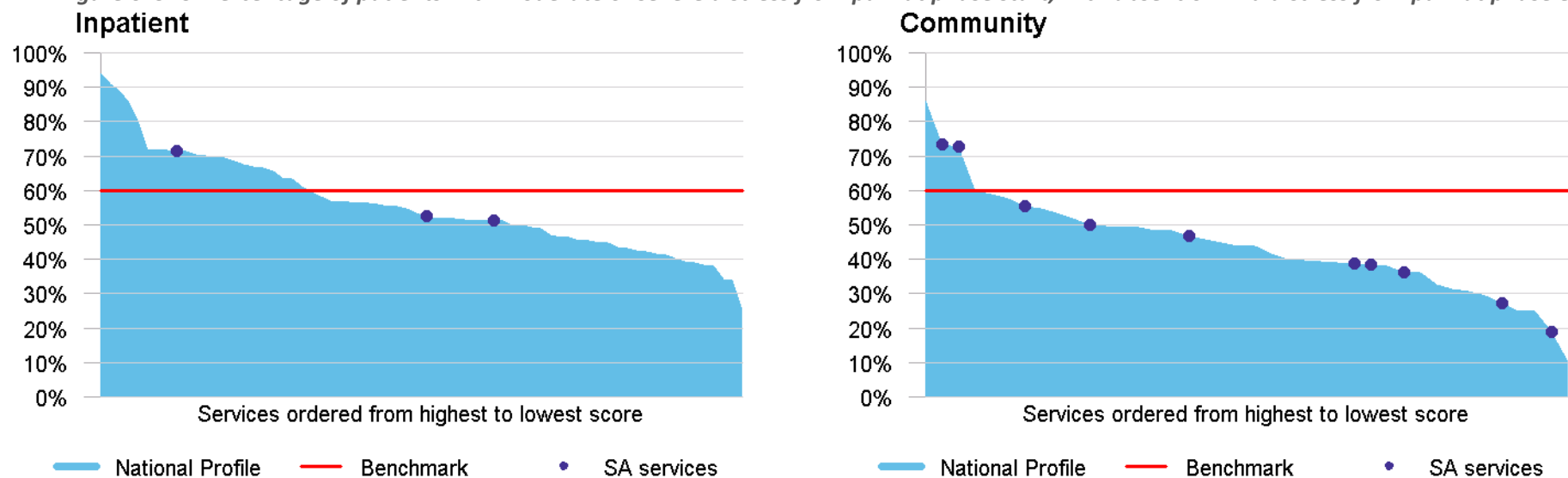
*Figure 4 PCPSS: Percentage of patients with moderate or severe pain at phase start, with absent or mild pain at phase end*



**Figure 5 SAS: Percentage of patients with absent or mild distress from pain at phase start, remaining absent or mild at phase end**



**Figure 6 SAS: Percentage of patients with moderate or severe distress from pain at phase start, with absent or mild distress from pain at phase end**



## Section 2 Outcome measures in detail

### 2.1 Outcome measure 1 – Time from date ready for care to episode start

Time from date ready for care to episode start reports responsiveness of palliative care services to patient needs. This benchmark was set following feedback and subsequent consultation with PCOC participants. Service providers acknowledge that, whilst there is wide variation in the delivery of palliative care across the country, access to palliative care should be measured based on patient need rather than service availability. As a result, services operating five days a week (Monday to Friday) are not distinguished from services operating seven days a week (all services are being benchmarked together).

**Benchmark 1:** This measure relates to the time taken for an episode to commence following the date the patient is available and ready to receive palliative care. To meet the benchmark for this measure, at least 90% of patients must have their episode commence on the day of, or the day following date ready for care.

**Table 4 Time from date ready for care to episode start by setting**

Time (in days)	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Same day	452	87.8	10,597	91.8	794	69.0	8,248	80.3
Following day	37	7.2	545	4.7	86	7.5	553	5.4
2-7 days	22	4.3	351	3.0	184	16.0	1,087	10.6
8-14 days	3	0.6	38	0.3	51	4.4	224	2.2
Greater than 14 days	1	0.2	9	0.1	35	3.0	156	1.5
Average	1.3	na	1.1	na	3.2	na	2.1	na
Median	1	na	1	na	1	na	1	na

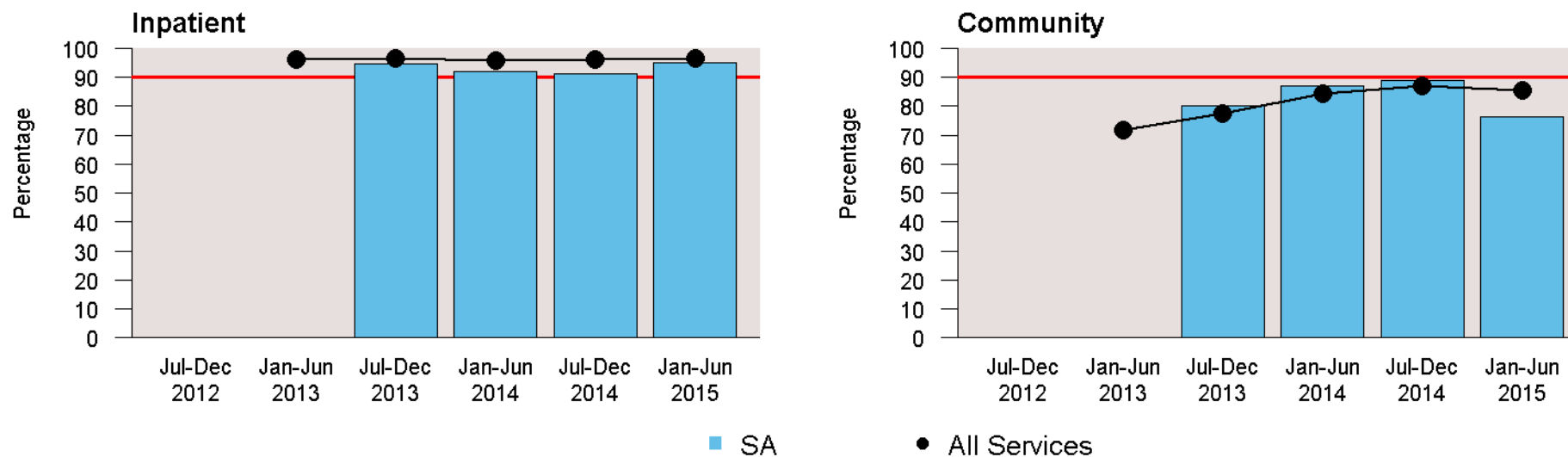
Note: Only episodes that started in this reporting period have been included in the table. Episodes where date ready for care was not recorded are excluded from the table. In addition, all records where time from date ready for care to episode start was greater than 90 days were considered to be atypical and were assumed to equal 90 days for the purpose of calculating the average and median time.

#### **Interpretation hint:**

Outcome measure 1 only includes episodes that have commenced in the reporting period. As a result, the number of episodes included in the calculation of this benchmark may not match the number of episodes in Appendix A. For more information on data scoping methods, see Appendix C.



*Figure 7 Trends in benchmark 1: Patients with episodes that commenced on the day of, or the day after date ready for care by setting*



## 2.2 Outcome measure 2 – Time in unstable phase

The unstable phase type, by nature of its definition, alerts clinical staff to the need for urgent changes to the patient's plan of care or that emergency intervention is required. Those patients assessed to be in the unstable phase require intense review for a short period of time.

An unstable phase is triggered if:

- a patient experiences a new, unanticipated problem, and / or
- a patient experiences a rapid increase in the severity of an existing problem, and / or
- a patient's family / carers experience a sudden change in circumstances that adversely impacts the patient's care.

The patient moves out of the unstable phase in one of two ways:

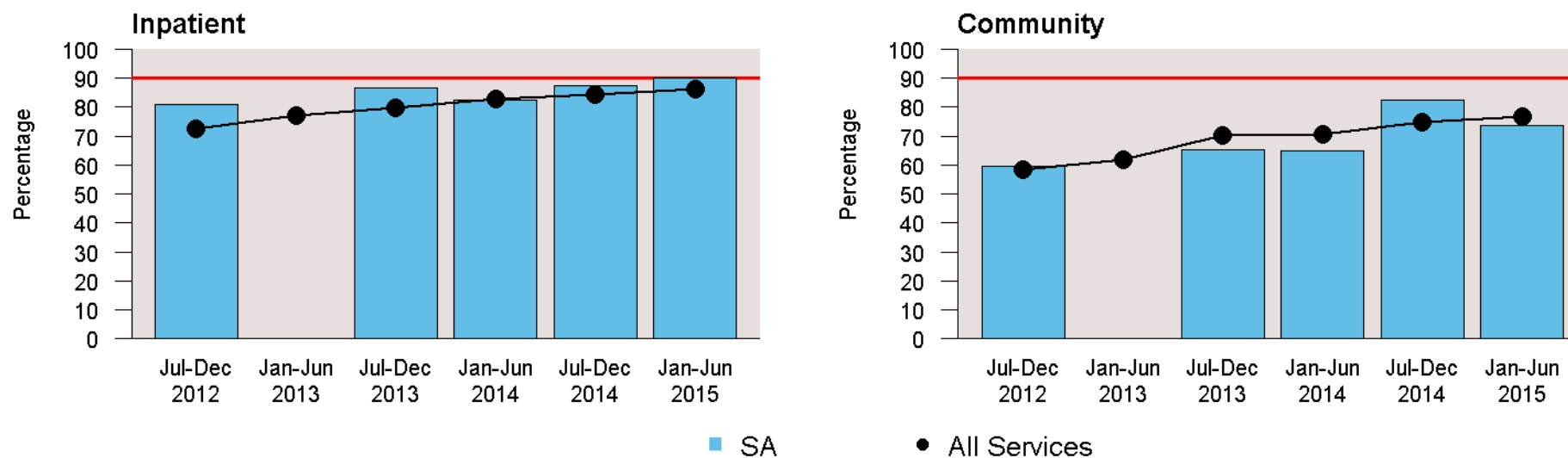
- A new plan of care has been put in place, has been reviewed and does not require any additional changes. This does not necessarily mean that the symptom / crisis has been fully resolved. However, the clinical team will have a clear diagnosis and a plan for the patient's care. In this situation, the patient will move to either the stable or deteriorating phase.
- The patient is likely to die within a matter of days. In this situation, the patient will be moved into the terminal phase.

**Benchmark 2:** This benchmark relates to the time that a patient spends in the unstable phase. To meet this benchmark, at least 90% of unstable phases must last for 3 days or less.

**Table 5 Time in unstable phase by setting**

Time in unstable phase	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Same day	5	2.5	233	3.4	39	17.7	849	23.4
1 day	106	52.7	3,277	47.2	78	35.5	1,239	34.2
2 days	57	28.4	1,724	24.8	35	15.9	441	12.2
3 days	13	6.5	763	11.0	10	4.5	252	7.0
4-5 days	15	7.5	595	8.6	17	7.7	236	6.5
6-7 days	2	1.0	196	2.8	7	3.2	187	5.2
8-14 days	3	1.5	129	1.9	18	8.2	203	5.6
Greater than 14 days	0	0.0	28	0.4	16	7.3	218	6.0
<b>Total</b>	<b>201</b>	<b>100.0</b>	<b>6,945</b>	<b>100.0</b>	<b>220</b>	<b>100.0</b>	<b>3,625</b>	<b>100.0</b>

*Figure 8 Trends in benchmark 2: Patients in the unstable phase for 3 days or less by setting*



## 2.3 Outcome measure 3 – Change in pain

The Palliative Care Problem Severity Score (PCPSS) and Symptom Assessment Scale (SAS) provide two different perspectives of pain. The PCPSS is clinician rated and measures the severity of pain as a clinical problem while the SAS is patient rated and measures distress caused by pain. There are two benchmarks related to each tool: one relating to patients with an absent or mild score, and the other relating to patients with a moderate or severe score. Phase records must have valid start and end scores for the PCPSS and / or SAS clinical assessment tools to be included in the benchmarks.

Scores for PCPSS  
0 absent  
1 mild  
2 moderate  
3 severe

Scores for SAS  
0 = absent distress  
1-3 = mild distress  
4-7 = moderate distress  
8-10 = severe distress

### *Interpretation hint:*

This outcome measure should be viewed in conjunction with Table 29 to Table 32 and Appendix B.

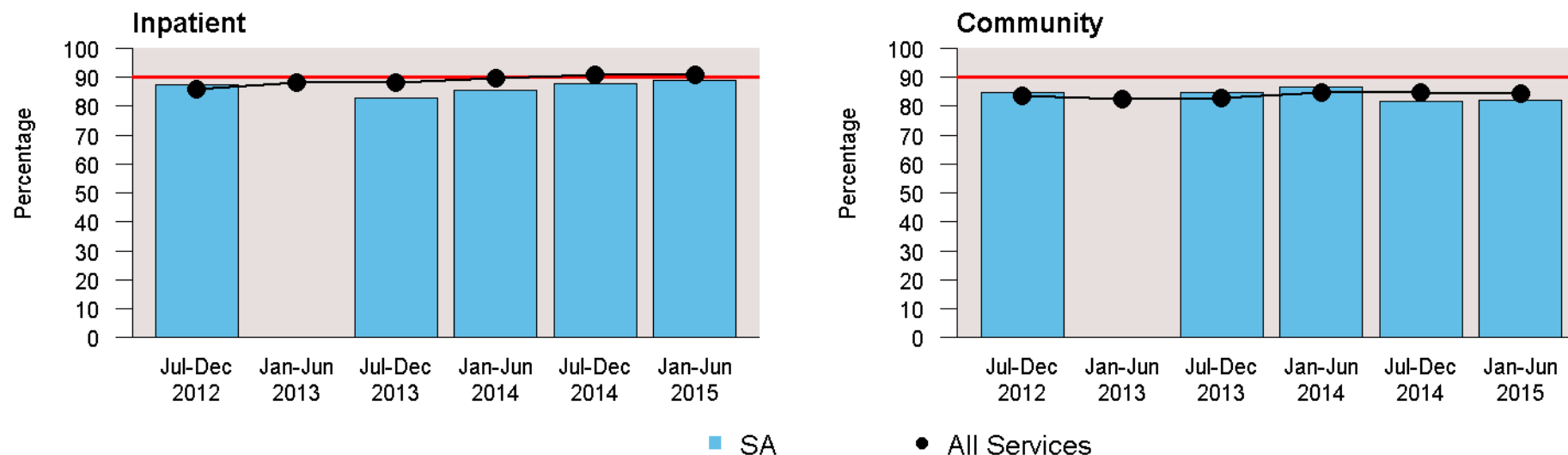
- Benchmark 3.1:** This benchmark relates to patients who have absent or mild pain at the start of their phase of palliative care, as rated via the PCPSS clinical tool. To meet this benchmark, 90% of these phases must end with the patient still experiencing only absent or mild pain.
- Benchmark 3.2:** This benchmark relates to patients who have moderate or severe pain at the start of their phase of palliative care, as rated via the PCPSS clinical tool. To meet this benchmark, 60% of these phases must end with the patient's pain reduced to being absent or mild.
- Benchmark 3.3:** This benchmark relates to patients who have absent or mild distress from pain at the start of their phase of palliative care, as rated via the SAS clinical tool. To meet this benchmark, 90% of these phases must end with the patient still experiencing only absent or mild distress from pain.
- Benchmark 3.4:** This benchmark relates to patients who have moderate or severe distress from pain at the start of their phase of palliative care, as rated via the SAS clinical tool. To meet this benchmark, 60% of these phases must end with the patient's distress from pain reduced to absent or mild.

**Table 6 Summary of outcome measure 3**

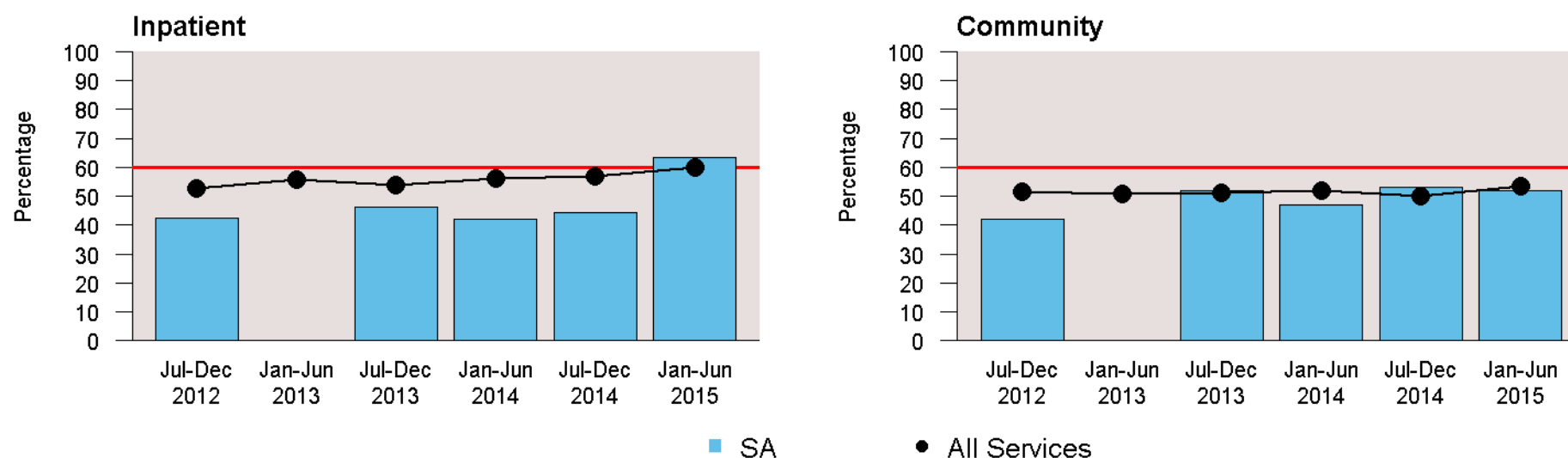
Benchmarks: change in pain	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N*	%	N*	%	N*	%	N*	%
Benchmark 3.1: PCPSS (severity)	602	89.0	16,578	90.9	713	82.2	15,665	84.4
Benchmark 3.2: PCPSS (severity)	183	63.4	5,399	59.8	223	52.0	3,992	53.5
Benchmark 3.3: SAS (distress)	511	86.1	14,451	88.9	614	76.4	14,633	81.5
Benchmark 3.4: SAS (distress)	259	55.2	6,419	53.5	327	39.8	5,255	46.8

\*Total number of phases included in this benchmark.

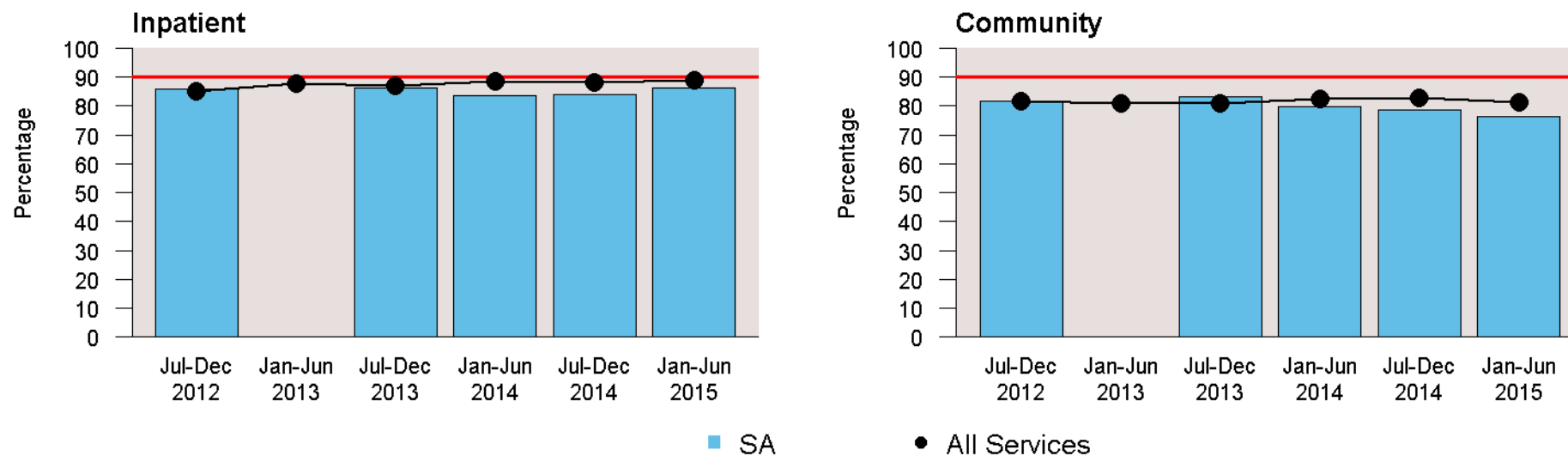
**Figure 9 Trends in benchmark 3.1: Patients with absent or mild pain at phase start, remaining absent or mild at phase end by setting**



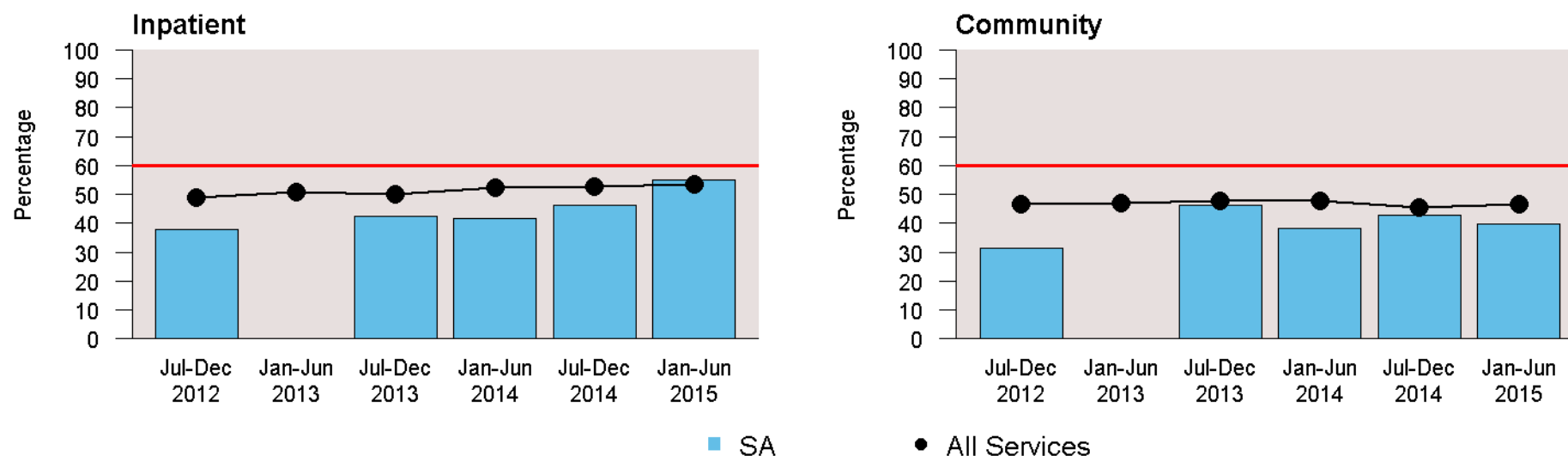
**Figure 10 Trends in benchmark 3.2: Patients with moderate or severe pain at phase start, with absent or mild at phase end by setting**



**Figure 11 Trends in benchmark 3.3: Patients with absent or mild distress from pain at phase start, remaining absent or mild at phase end by setting**



**Figure 12 Trends in benchmark 3.4: Patients with moderate or severe distress from pain at phase start, with absent or mild distress from pain at phase end by setting**



## 2.4 Outcome measure 4 – Change in symptoms relative to the baseline national average (X-CAS)

Outcome measure 4 includes a suite of case-mix adjusted scores used to compare the change in symptoms for similar patients i.e. patients in the same phase who started with the same level of symptom. Eight symptoms are included in this report and the baseline reference period is January to June 2014. The suite of benchmarks included in outcome measure 4 are generally referred to as X-CAS – CAS standing for *Case-mix Adjusted Score*, and the X to represent that multiple symptoms are included. As X-CAS looks at change in symptom, they are only able to be calculated on phases which ended in phase change or discharge (as the phase end scores are required to determine the change).

**Table 7 Summary of outcome measure 4**

Clinical Tool	Benchmark: Symptom	SA Services				All Services			
		X-CAS	N phases included in measure	N phases at or above the baseline	% phases at or above the baseline	X-CAS	N phases included in measure	N phases at or above the baseline	% phases at or above the baseline
PCPSS (severity)	4.1: Pain	-0.04	1,721	979	56.9	0.02	41,634	24,461	58.8
	4.2: Other symptoms	-0.03	1,716	1,019	59.4	0.04	40,844	26,307	64.4
	4.3: Family / carer	-0.05	1,666	967	58.0	0.03	40,854	25,423	62.2
	4.4: Psychological / spiritual	0.03	1,722	959	55.7	0.05	41,465	22,401	54.0
SAS (distress)	4.5: Pain	-0.23	1,711	970	56.7	0.00	40,758	25,154	61.7
	4.6: Nausea	-0.16	1,698	1,289	75.9	0.02	40,240	33,123	82.3
	4.7: Breathing Problems	-0.18	1,704	1,040	61.0	0.07	40,013	28,503	71.2
	4.8: Bowel Problems	-0.33	1,691	1,006	59.5	0.04	39,831	28,751	72.2

### Interpretation hint:

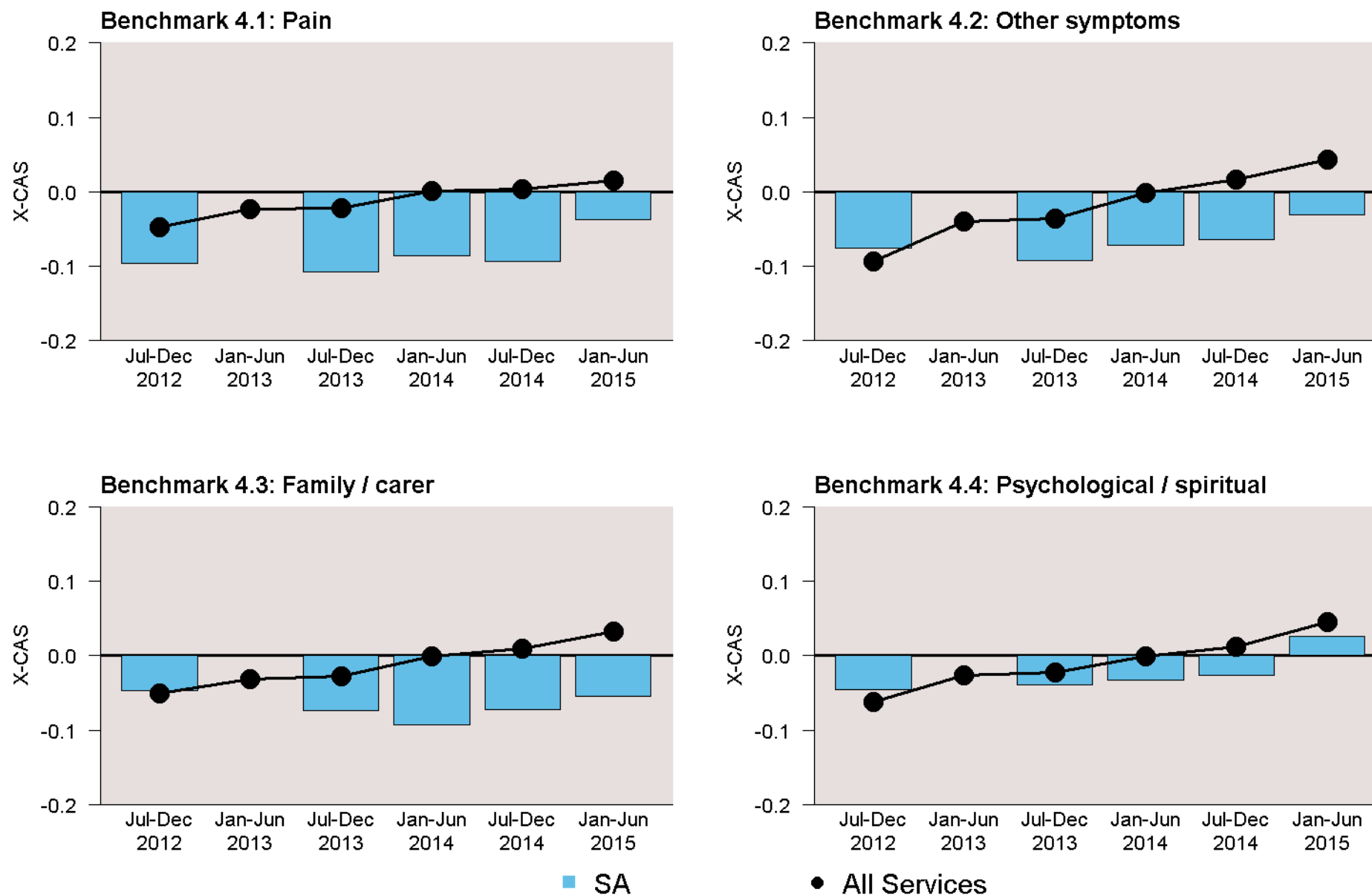
The X-CAS measures are calculated relative to a baseline reference period (currently January to June 2014). As a result:

If X-CAS is greater than 0 then on average, patients' change in symptom was better than similar patients in the baseline reference period.

If X-CAS is equal to 0 then on average, patients' change in symptom was about the same as similar patients in the baseline reference period.

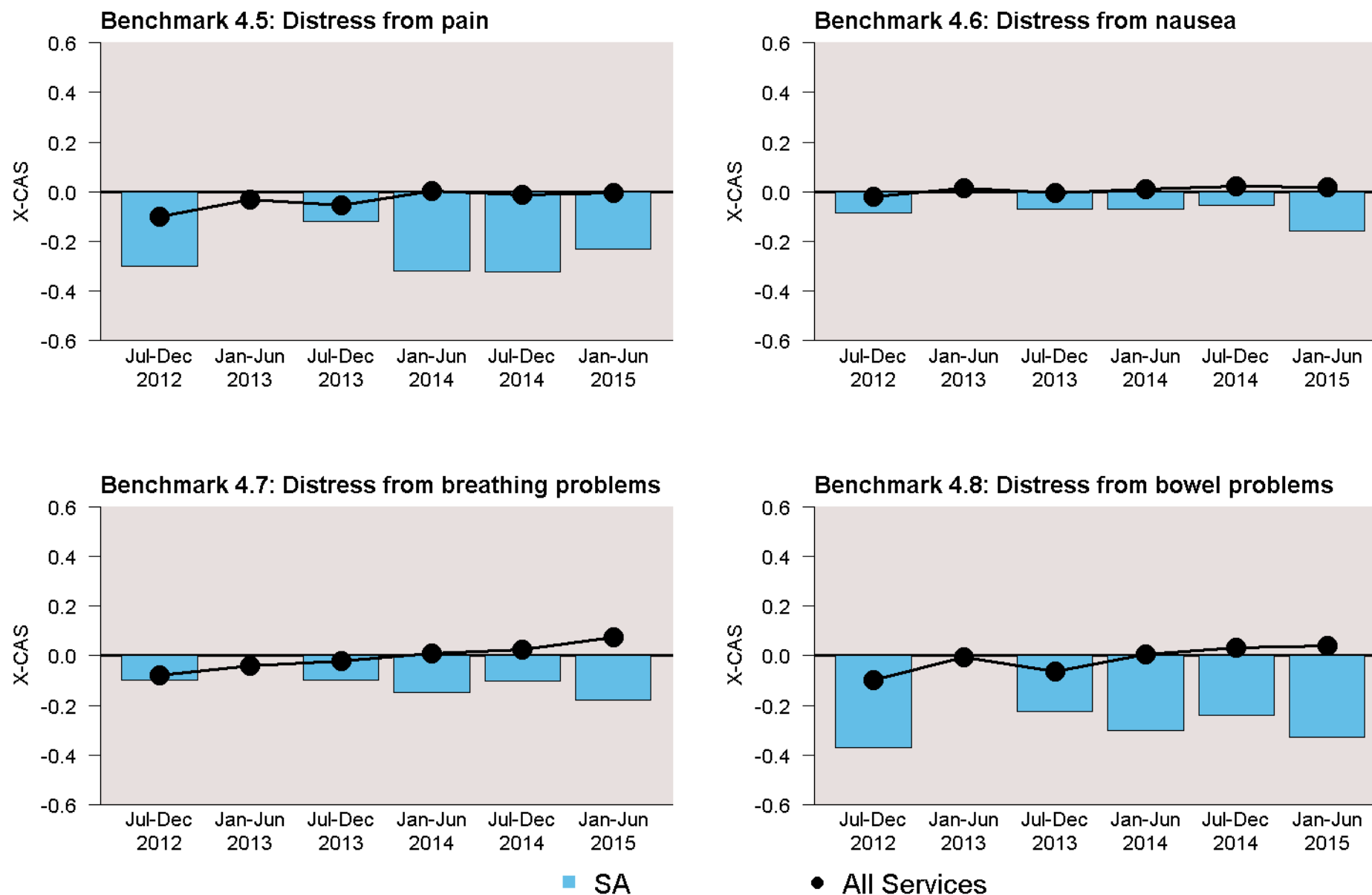
If X-CAS is less than 0 then on average, patients' change in symptom was worse than similar patients in the baseline reference period.

**Figure 13 Trends in outcome measure 4 – Palliative Care Problem Severity Score (PCPSS)**





**Figure 14 Trends in outcome measure 4 – Symptom Assessment Scale (SAS)**



## **Section 3      Descriptive analysis**

This section provides descriptive information of the data submitted by South Australian services at each of the three levels – patient, episode and phase.

Patient level information describes demographics such as Indigenous status, sex, preferred language and country of birth. This information about the patient provides a context to the episode and phase level information and enhances the meaningfulness of patient outcomes.

Episode level information describes the setting of palliative care service provision. It also includes information relating to the facility or organisation that has referred the patient, how an episode starts and ends, and the setting in which the patient died.

Phase level information describes the clinical condition of the patient during the episode, using five clinical assessment tools. These are phase of illness, the patient's functional status and performance, pain and other common symptoms, the patient's psychological / spiritual and family / carer domain.

Summaries of the national data are included for comparative purposes.

### 3.1 Profile of palliative care patients

PCOC defines a patient as a person for whom a palliative care service accepts responsibility for assessment and / or treatment as evidenced by the existence of a medical record. Family and carers are included in this definition if interventions relating to them are recorded in the patient medical record.

Table 8 shows the Indigenous status for the patients in South Australia and nationally.

**Table 8 Indigenous status**

Indigenous status	SA Services		All Services	
	N	%	N	%
Aboriginal but not Torres Strait Islander origin	13	1.0	205	1.1
Torres Strait Islander but not Aboriginal origin	0	0.0	17	0.1
Both Aboriginal and Torres Strait Islander origin	1	0.1	13	0.1
Neither Aboriginal nor Torres Strait Islander origin	1,154	87.8	18,587	96.7
Not stated / inadequately described	147	11.2	398	2.1
<b>Total</b>	<b>1,315</b>	<b>100.0</b>	<b>19,220</b>	<b>100.0</b>

Table 9 shows the breakdown of deaths for the patients in South Australia and nationally for the reporting period. All inpatient deaths are reported in the hospital category while the community deaths are reported in the private residence and residential aged care facility categories.

**Table 9 Place of death**

Place of death	SA Services		All Services	
	N	%	N	%
Private residence	167	29.6	1,870	19.8
Residential aged care facility	69	12.2	695	7.4
Hospital	312	55.2	6,720	71.2
Not stated / inadequately described	17	3.0	150	1.6
<b>Total</b>	<b>565</b>	<b>100.0</b>	<b>9,435</b>	<b>100.0</b>

The following two tables show the country of birth and the preferred language respectively for the patients in South Australia and nationally. To allow for comparison with the broader Australian community the list of country of birth in Table 10 is in descending order of the most frequent country of birth according to the 2006 Census (e.g. Italy was the fifth most common country of birth in the 2006 Census). The same approach has been taken with Table 11 (e.g. Greek was the third most frequently spoken language in the 2006 census). All other countries and languages have been grouped together to form the categories 'All other countries' and 'All other languages' respectively.

**Table 10 Country of birth**

Country of birth	SA Services		All Services	
	N	%	N	%
Australia	799	60.8	11,998	62.4
England	128	9.7	1,367	7.1
New Zealand	4	0.3	357	1.9
China	2	0.2	240	1.2
Italy	64	4.9	757	3.9
Vietnam	10	0.8	152	0.8
India	6	0.5	143	0.7
Scotland	17	1.3	261	1.4
Philippines	1	0.1	84	0.4
Greece	35	2.7	398	2.1
Germany	23	1.7	233	1.2
South Africa	6	0.5	83	0.4
Malaysia	3	0.2	66	0.3
Netherlands	20	1.5	194	1.0
Lebanon	1	0.1	107	0.6
All other countries	91	6.9	2,500	13.0
Not stated / inadequately described	105	8.0	280	1.5
<b>Total</b>	<b>1,315</b>	<b>100.0</b>	<b>19,220</b>	<b>100.0</b>

**Table 11 Preferred language**

Preferred language	SA Services		All Services	
	N	%	N	%
English	1,178	89.6	17,250	89.8
Italian	25	1.9	366	1.9
Greek	17	1.3	267	1.4
Chinese <sup>(a)</sup>	2	0.2	216	1.1
Arabic <sup>(b)</sup>	0	0.0	130	0.7
Vietnamese <sup>(c)</sup>	10	0.8	71	0.4
Spanish / Portuguese <sup>(d)</sup>	1	0.1	46	0.2
Filipino / Indonesian <sup>(e)</sup>	0	0.0	17	0.1
German <sup>(f)</sup>	1	0.1	30	0.2
Hindi <sup>(g)</sup>	1	0.1	29	0.2
Croatian / Macedonian <sup>(h)</sup>	2	0.2	126	0.7
Korean	0	0.0	15	0.1
Turkish <sup>(i)</sup>	0	0.0	35	0.2
Polish <sup>(j)</sup>	3	0.2	25	0.1
Maltese	0	0.0	18	0.1
All other languages	5	0.4	416	2.2
Not stated / inadequately described	70	5.3	163	0.8
<b>Total</b>	<b>1,315</b>	<b>100.0</b>	<b>19,220</b>	<b>100.0</b>

**(a) Chinese includes:** Cantonese, Hakka, Mandarin, Wu and Min Nan; **(b) Middle Eastern Semitic Languages includes:** Hebrew, Assyrian Neo-Aramaic, Chaldean Neo-Aramaic, Mandaean (Mandaic); **(c) Mon-Khmer includes:** Khmer, Mon; **(d) Iberian Romance includes:** Catalan; **(e) Southeast Asian Austronesian Languages includes:** Bisaya, Cebuano, Ilokano, Malay, Tetum, Timorese, Tagalog, Acehnese, Balinese, Bikol, Iban, Ilonggo (Hiligaynon), Javanese, Pampangan; **(f) German and Related Languages include:** Letzeburgish, Yiddish; **(g) Indo-Aryan includes:** Bengali, Gujarati, Konkani, Marathi, Nepali, Punjabi, Sindhi, Sinhalese, Urdu, Assamese, Dhivehi, Kashmiri, Oriya, Fijian Hindustani; **(h) South Slavic includes:** Bosnian, Bulgarian, Serbian, Slovene; **(i) Turkic includes:** Azeri, Tatar, Turkmen, Uyghur, Uzbek; **(j) West Slavic includes:** Czech, Slovak

Table 12 and Table 13 present a breakdown of malignant and non-malignant diagnosis for the patients in South Australia and nationally. The primary diagnosis is the principal life limiting illness responsible for the patient requiring palliative care.

The primary diagnosis was not stated for 1 (0.1%) patient in South Australia and was not stated for 80 (0.4%) patients nationally.

**Table 12 Primary diagnosis - malignant**

Primary diagnosis	SA Services			All Services		
	N	% malignant diagnosis	% all diagnosis	N	% malignant diagnosis	% all diagnosis
Bone and soft tissue	16	1.4	1.2	238	1.6	1.2
Breast	90	8.1	6.8	1,176	7.9	6.1
CNS	23	2.1	1.7	344	2.3	1.8
Colorectal	139	12.5	10.6	1,644	11.0	8.6
Other GIT	116	10.4	8.8	1,401	9.4	7.3
Haematological	81	7.3	6.2	963	6.4	5.0
Head and neck	72	6.5	5.5	826	5.5	4.3
Lung	238	21.4	18.1	3,340	22.3	17.4
Pancreas	71	6.4	5.4	938	6.3	4.9
Prostate	59	5.3	4.5	1,003	6.7	5.2
Other urological	53	4.8	4.0	593	4.0	3.1
Gynaecological	49	4.4	3.7	740	4.9	3.9
Skin	39	3.5	3.0	589	3.9	3.1
Unknown primary	23	2.1	1.7	372	2.5	1.9
Other primary malignancy	31	2.8	2.4	526	3.5	2.7
Malignant – not further defined	12	1.1	0.9	259	1.7	1.3
<b>All malignant</b>	<b>1,112</b>	<b>100.0</b>	<b>84.6</b>	<b>14,952</b>	<b>100.0</b>	<b>77.8</b>

**Table 13 Primary diagnosis - non-malignant**

Primary diagnosis	SA Services			All Services		
	N	% non-malignant diagnosis	% all diagnosis	N	% non-malignant diagnosis	% all diagnosis
Cardiovascular disease	38	18.8	2.9	733	17.5	3.8
HIV / AIDS	0	0.0	0.0	6	0.1	0.0
End stage kidney disease	13	6.4	1.0	392	9.4	2.0
Stroke	2	1.0	0.2	282	6.7	1.5
Motor neurone disease	15	7.4	1.1	207	4.9	1.1
Alzheimer's dementia	8	4.0	0.6	148	3.5	0.8
Other dementia	4	2.0	0.3	237	5.7	1.2
Other neurological disease	22	10.9	1.7	335	8.0	1.7
Respiratory failure	41	20.3	3.1	674	16.1	3.5
End stage liver disease	11	5.4	0.8	171	4.1	0.9
Diabetes and its complications	2	1.0	0.2	16	0.4	0.1
Sepsis	1	0.5	0.1	116	2.8	0.6
Multiple organ failure	3	1.5	0.2	91	2.2	0.5
Other non-malignancy	35	17.3	2.7	646	15.4	3.4
Non-malignant – not further defined	7	3.5	0.5	134	3.2	0.7
<b>All non-malignant</b>	<b>202</b>	<b>100.0</b>	<b>15.4</b>	<b>4,188</b>	<b>100.0</b>	<b>21.8</b>

## 3.2 Profile of palliative care episodes

An episode of care is a period of contact between a patient and a palliative care service that is provided by one palliative care service and occurs in one setting – for the purposes of this report, either as an inpatient or community patient.

An episode of palliative care starts on the date when the comprehensive palliative care assessment is undertaken and documented using the five clinical assessment tools.

An episode of palliative care ends when:

- the patient is formally separated from the current setting of care (e.g. from community to inpatient) or
- the patient dies or
- the principal clinical intent of the care changes and the patient is no longer receiving palliative care.

Table 14 below presents the number and percentage of episodes by age group and sex for the patients seen by South Australian services and at the national level. Age has been calculated as at the beginning of each episode.

**Table 14 Age group by sex**

Age group	SA Services				All Services			
	Male		Female		Male		Female	
	N	%	N	%	N	%	N	%
< 15	1	0.1	0	0.0	36	0.3	26	0.2
15 - 24	1	0.1	0	0.0	31	0.2	26	0.2
25 - 34	8	0.8	3	0.4	106	0.8	90	0.8
35 - 44	9	0.9	35	4.4	278	2.2	390	3.4
45 - 54	52	5.3	66	8.3	725	5.7	926	8.1
55 - 64	192	19.6	103	12.9	2,009	15.8	1,786	15.5
65 - 74	264	27.0	199	24.9	3,313	26.1	2,669	23.2
75 - 84	281	28.7	229	28.7	3,750	29.6	3,008	26.2
85+	171	17.5	163	20.4	2,440	19.2	2,566	22.3
Not stated / inadequately described	0	0.0	0	0.0	0	0.0	0	0.0
<b>Total</b>	<b>979</b>	<b>100.0</b>	<b>798</b>	<b>100.0</b>	<b>12,688</b>	<b>100.0</b>	<b>11,487</b>	<b>100.0</b>

Note: Records where sex was not stated or inadequately described are excluded from the table.



Referral source refers to the facility or organisation from which the patient was referred for each episode of care. Table 15 presents referral source by setting.

**Table 15 Referral source by setting**

Referral source	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Public hospital	208	39.3	7,216	57.9	677	54.2	6,559	56.0
Private hospital	67	12.7	1,015	8.1	122	9.8	1,157	9.9
Outpatient clinic	1	0.2	98	0.8	9	0.7	66	0.6
General medical practitioner	4	0.8	418	3.4	193	15.5	1,714	14.6
Specialist medical practitioner	2	0.4	567	4.5	49	3.9	467	4.0
Community-based palliative care agency	236	44.6	2,767	22.2	29	2.3	105	0.9
Community-based service	1	0.2	49	0.4	39	3.1	210	1.8
Residential aged care facility	4	0.8	54	0.4	28	2.2	788	6.7
Self, carer(s), family or friends	5	0.9	148	1.2	83	6.7	423	3.6
Other	0	0.0	115	0.9	17	1.4	193	1.6
Not stated / inadequately described	1	0.2	17	0.1	2	0.2	34	0.3
<b>Total</b>	<b>529</b>	<b>100.0</b>	<b>12,464</b>	<b>100.0</b>	<b>1,248</b>	<b>100.0</b>	<b>11,716</b>	<b>100.0</b>

Table 16 provides a summary of the time between referral to first contact by setting of care. The time from referral to first contact is calculated as the time from the date of referral received to either the date of first contact (if provided) or the episode start date.

**Table 16 Referral to first contact by setting**

Time (in days)	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Same day or following day	464	87.7	11,587	94.0	792	63.5	6,201	52.9
2-7 days	52	9.8	607	4.9	361	28.9	3,930	33.5
8-14 days	6	1.1	69	0.6	51	4.1	912	7.8
Greater than 14 days	7	1.3	66	0.5	44	3.5	671	5.7
Average	1.4	na	1.2	na	2.2	na	2.8	na
Median	1	na	1	na	1	na	1	na

Note: Episodes where referral date was not recorded are excluded from the table. In addition, all records where time from referral to first contact was greater than 90 days were considered to be atypical and were assumed to equal 90 days for the purpose of calculating the average and median time.

Table 17 gives a summary of the length of episodes for patients in South Australia and nationally. Table 18 details the length of episode by setting. The length of episode is calculated as the number of days between the episode start date and the episode end date. Bereavement phases are excluded from the calculation and episodes that remain open at the end of the reporting period (and hence do not have an episode end date) are also excluded.

**Table 17 Length of episode (in days) summary by setting**

Length of episode	Inpatient		Community	
	SA Services	All Services	SA Services	All Services
Average length of episode	11.6	10.9	42.5	38.3
Median length of episode	7.0	6.0	34.0	27.0

Note: Records where length of episode was greater than 180 days were considered to be atypical and are excluded from the average calculations. Only episodes ending during the reporting period are included.

**Table 18 Length of episode (in days) by setting**

Length of episode	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Same day	16	3.1	757	6.2	33	2.9	416	4.0
1-2 days	101	19.6	2,322	19.0	74	6.5	740	7.1
3-4 days	86	16.7	1,837	15.0	45	4.0	573	5.5
5-7 days	67	13.0	1,998	16.3	78	6.9	803	7.7
8-14 days	116	22.5	2,544	20.8	130	11.5	1,260	12.0
15-21 days	62	12.0	1,151	9.4	90	8.0	950	9.1
22-30 days	27	5.2	741	6.1	89	7.9	918	8.8
31-60 days	30	5.8	683	5.6	198	17.5	1,812	17.3
61-90 days	9	1.7	139	1.1	108	9.6	926	8.8
Greater than 90 days	2	0.4	68	0.6	285	25.2	2,077	19.8
<b>Total</b>	<b>516</b>	<b>100.0</b>	<b>12,240</b>	<b>100.0</b>	<b>1,130</b>	<b>100.0</b>	<b>10,475</b>	<b>100.0</b>

Note: Only episodes ending during the reporting period are included.

**Table 19 How episodes start – inpatient setting**

Episode start mode	SA Services		All Services	
	N	%	N	%
Admitted from community*	346	65.4	7,274	58.4
Admitted from another hospital	69	13.0	3,156	25.3
Admitted from acute care in another ward	105	19.8	1,721	13.8
Change from acute care to palliative care – same ward	6	1.1	206	1.7
Other**	2	0.4	100	0.8
Not stated / inadequately described	1	0.2	7	0.1
<b>Total</b>	<b>529</b>	<b>100.0</b>	<b>12,464</b>	<b>100.0</b>

\* includes: admitted from usual accommodation, admitted from other than usual accommodation.

\*\* includes: change of sub-acute/non-acute care type and other categories.

**Table 20 How episodes end – inpatient setting**

Episode end mode	SA Services		All Services	
	N	%	N	%
Discharged to community*	184	35.7	4,285	35.0
Discharged to another hospital	13	2.5	749	6.1
Death	312	60.5	6,720	54.9
Change from palliative care to acute care**	0	0.0	59	0.5
Change in sub-acute care type	1	0.2	57	0.5
End of consultative episode – inpatient episode ongoing	4	0.8	260	2.1
Other	1	0.2	100	0.8
Not stated / inadequately described	1	0.2	10	0.1
<b>Total</b>	<b>516</b>	<b>100.0</b>	<b>12,240</b>	<b>100.0</b>

Note: Only episodes ending during the reporting period are included.

\* includes: discharged to usual accommodation, discharged to other than usual accommodation.

\*\* includes: change from palliative care to acute care – different ward, change from palliative care to acute care – same ward.

**Table 21 How episodes start – community setting**

Episode start mode	SA Services		All Services	
	N	%	N	%
Admitted from inpatient palliative care	147	11.8	4,150	35.4
Other*	1,098	88.0	7,505	64.1
Not stated / inadequately described	3	0.2	61	0.5
<b>Total</b>	<b>1,248</b>	<b>100.0</b>	<b>11,716</b>	<b>100.0</b>

\*includes: patient was not transferred from being an overnight patient.

**Table 22 How episodes end – community setting**

Episode end mode	SA Services		All Services	
	N	%	N	%
Admitted for inpatient palliative care	276	24.4	3,166	30.2
Admitted for inpatient acute care	376	33.3	2,902	27.7
Admitted to another palliative care service	13	1.2	180	1.7
Admitted to primary health care	31	2.7	252	2.4
Discharged / case closure	148	13.1	1,079	10.3
Death	253	22.4	2,715	25.9
Other	23	2.0	164	1.6
Not stated / inadequately described	10	0.9	17	0.2
<b>Total</b>	<b>1,130</b>	<b>100.0</b>	<b>10,475</b>	<b>100.0</b>

Note: Only episodes ending during the reporting period are included.

### 3.3 Profile of palliative care phases

The palliative care phase type describes the stage of the patient's illness and provides a clinical indication of the level of care a patient requires. The palliative care phase is determined by a holistic clinical assessment which considers the needs of the patients and their family and carers. A patient may move back and forth between the stable, unstable, deteriorating and terminal phase types and these may occur in any sequence. See Appendix D for more information on the definition of palliative care phase.

The clinical assessments are assessed daily (or at each visit) and are reported on admission, when the phase changes and at discharge.

**Table 23** *Number of phases by phase type and setting*

Phase type	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Stable	315	26.9	7,474	25.4	870	46.6	9,994	37.7
Unstable	201	17.2	6,945	23.6	220	11.8	3,625	13.7
Deteriorating	412	35.2	9,150	31.1	645	34.5	10,802	40.7
Terminal	242	20.7	5,890	20.0	133	7.1	2,111	8.0
<b>Total</b>	<b>1,170</b>	<b>100.0</b>	<b>29,459</b>	<b>100.0</b>	<b>1,868</b>	<b>100.0</b>	<b>26,532</b>	<b>100.0</b>

Note: Bereavement phases have been excluded due to inconsistent data collection and bereavement practices. Bereavement phases are not included in the total phases count.

**Table 24** *Average phase length (in days) by phase type and setting*

Phase type	Inpatient		Community	
	SA Services	All Services	SA Services	All Services
Stable	7.3	7.3	30.2	20.9
Unstable	1.8	2.2	4.7	4.1
Deteriorating	6.7	5.4	17.8	12.9
Terminal	1.9	2.1	3.2	3.0

Note: Phase records where phase length was greater than 90 days were considered to be atypical and are excluded from the average calculations.

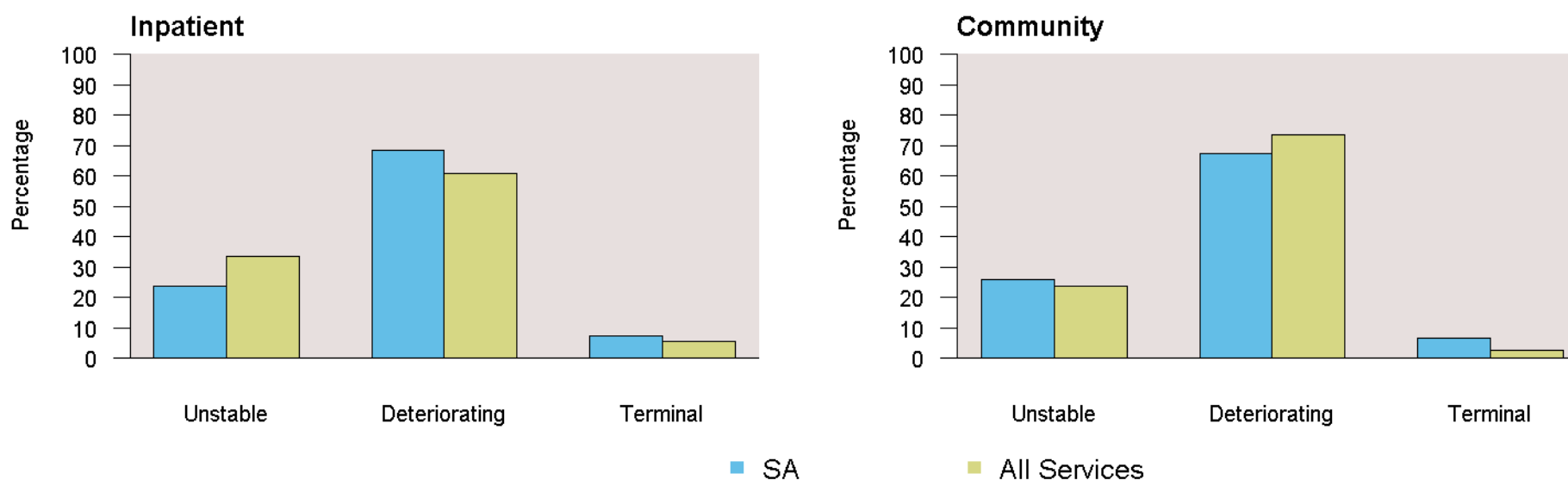
Table 25 presents information relating to the manner in which stable phases ended, both for South Australian services and nationally. A stable phase will end if a patient moves into a different phase (phase change), is discharged or dies. Figure 15 summarises the movement of patients out of the stable phase for the inpatient and community settings. This movement from one phase to another is referred to as phase progression and is derived by PCOC.

Similar information is presented for the unstable (Table 26, Figure 16), deteriorating (Table 27, Figure 17) and terminal (Table 28, Figure 18) phases on the following pages.

**Table 25 How stable phases end – by setting**

How stable phases end	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Patient moved into another phase	163	51.7	3,825	51.2	362	41.6	6,461	64.6
Discharge / case closure	145	46.0	3,559	47.6	426	49.0	3,194	32.0
Died	5	1.6	86	1.2	57	6.6	301	3.0
Not stated / inadequately described	2	0.6	4	0.1	25	2.9	38	0.4
<b>Total</b>	<b>315</b>	<b>100.0</b>	<b>7,474</b>	<b>100.0</b>	<b>870</b>	<b>100.0</b>	<b>9,994</b>	<b>100.0</b>

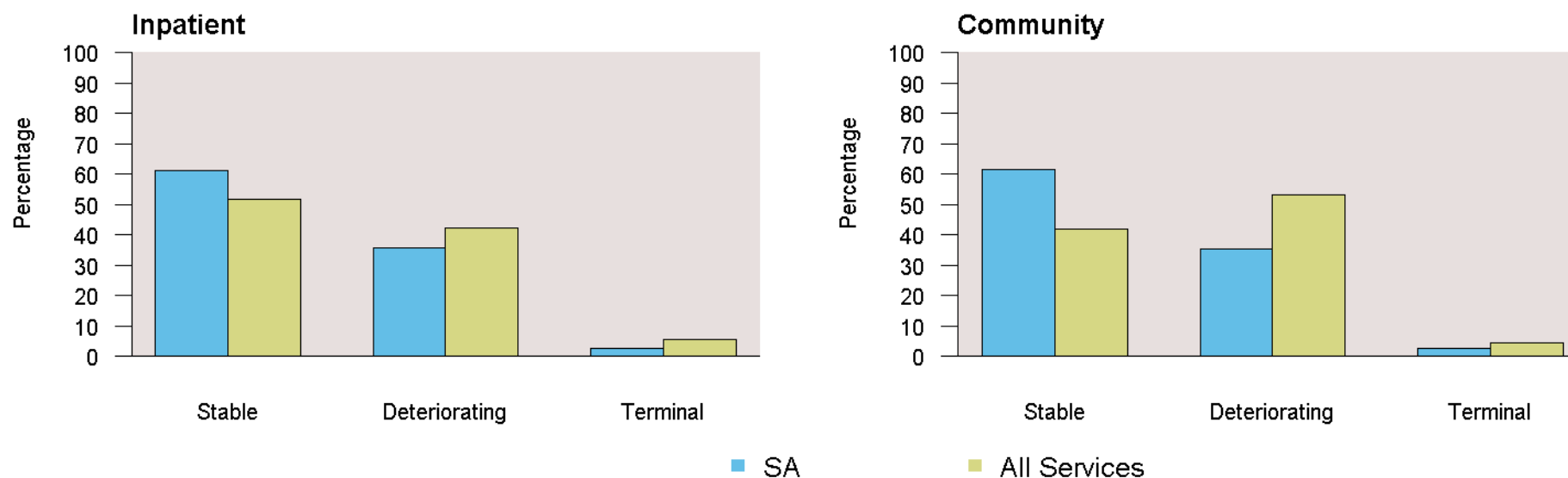
**Figure 15 Stable phase progression**



**Table 26** How unstable phases end – by setting

How unstable phases end	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Patient moved into another phase	176	87.6	6,296	90.7	146	66.4	2,400	66.2
Discharge / case closure	10	5.0	489	7.0	70	31.8	1,157	31.9
Died	14	7.0	156	2.2	3	1.4	65	1.8
Not stated / inadequately described	1	0.5	4	0.1	1	0.5	3	0.1
<b>Total</b>	<b>201</b>	<b>100.0</b>	<b>6,945</b>	<b>100.0</b>	<b>220</b>	<b>100.0</b>	<b>3,625</b>	<b>100.0</b>

**Figure 16** Unstable phase progression

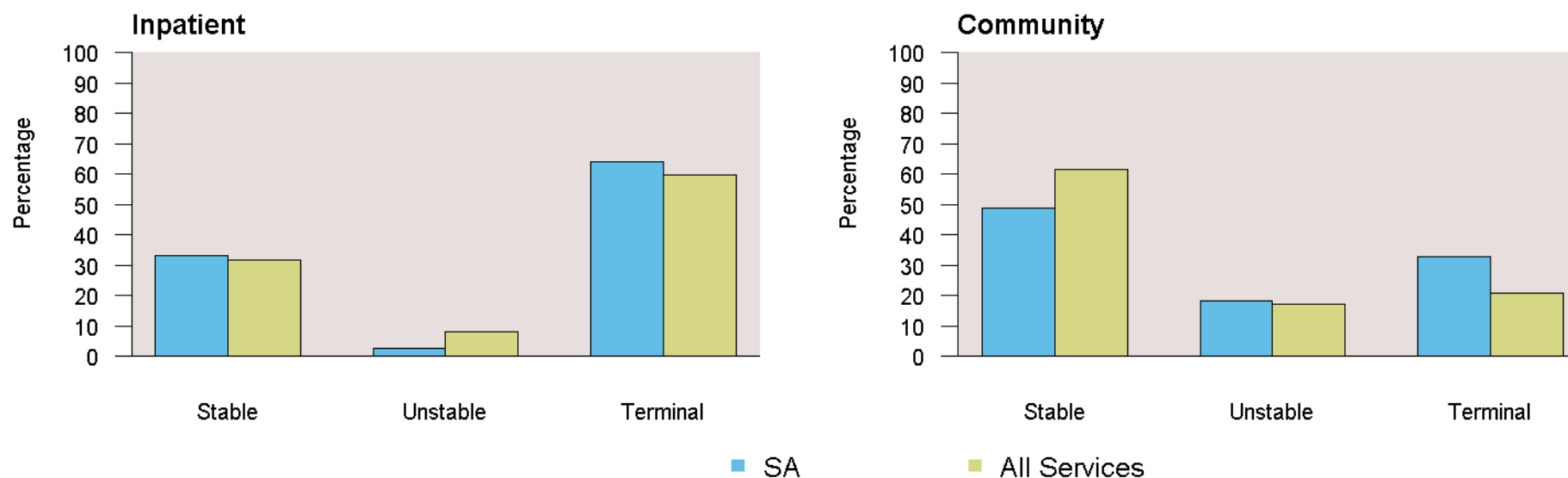




**Table 27** How deteriorating phases end – by setting

How deteriorating phases end	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Patient moved into another phase	299	72.6	6,834	74.7	231	35.8	6,853	63.4
Discharge / case closure	40	9.7	1,353	14.8	310	48.1	3,121	28.9
Died	70	17.0	958	10.5	81	12.6	794	7.4
Not stated / inadequately described	3	0.7	5	0.1	23	3.6	34	0.3
<b>Total</b>	<b>412</b>	<b>100.0</b>	<b>9,150</b>	<b>100.0</b>	<b>645</b>	<b>100.0</b>	<b>10,802</b>	<b>100.0</b>

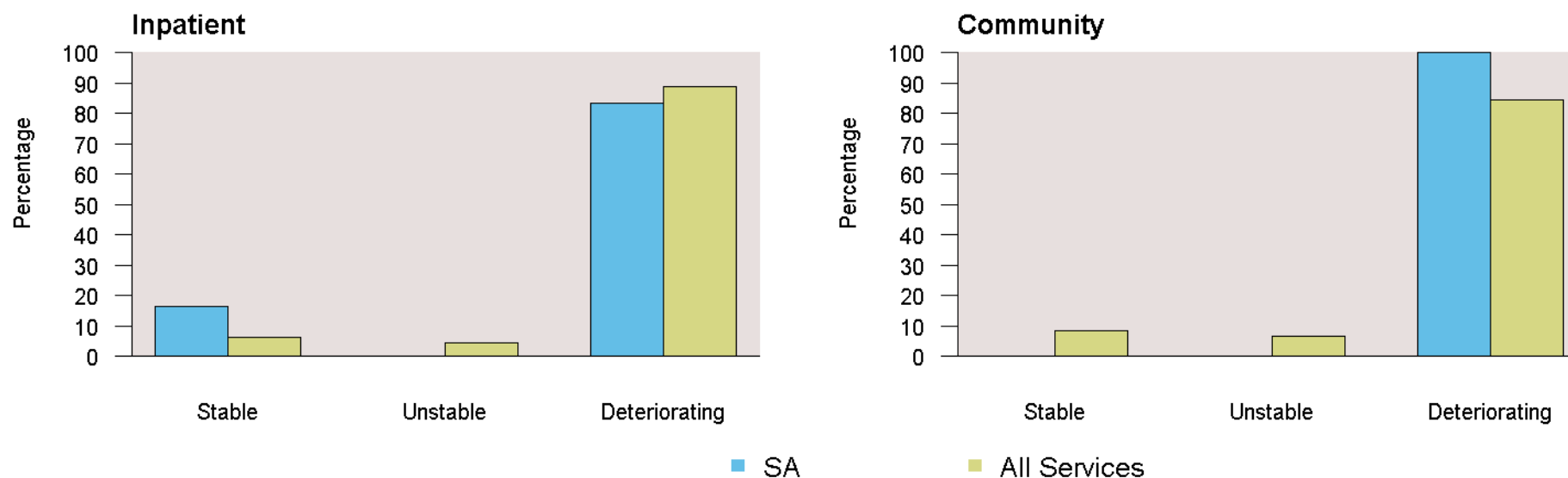
**Figure 17** Deteriorating phase progression



**Table 28** How terminal phases end – by setting

How terminal phases end	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
Patient moved into another phase	18	7.4	265	4.5	1	0.8	340	16.1
Discharge / case closure	2	0.8	103	1.7	11	8.3	198	9.4
Died	222	91.7	5,516	93.7	117	88.0	1,567	74.2
Not stated / inadequately described	0	0.0	6	0.1	4	3.0	6	0.3
<b>Total</b>	<b>242</b>	<b>100.0</b>	<b>5,890</b>	<b>100.0</b>	<b>133</b>	<b>100.0</b>	<b>2,111</b>	<b>100.0</b>

**Figure 18** Terminal phase progression



The Palliative Care Problem Severity Score (PCPSS) is a clinician rated screening tool to assess the overall severity of problems within four key palliative care domains (pain, other symptoms, psychological / spiritual and family / carer). The ratings are: 0 - absent, 1 - mild, 2 - moderate and 3 - severe.

Table 29 and Table 30 show the percentage scores for the inpatient and community settings, respectively, for both South Australian services and nationally. Alternative graphical representations of PCPSS profile by phase type can be found in Appendix B.

**Table 29 Profile of PCPSS at beginning of phase by phase type – inpatient setting (percentages)**

Phase type		SA Services				All Services			
	Problem severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe
Stable	Pain	43.1	41.2	13.4	2.2	48.6	37.6	11.6	2.2
	Other symptoms	25.8	51.6	19.4	3.2	29.1	51.2	16.9	2.8
	Psychological / spiritual	35.9	53.8	9.0	1.3	39.6	48.8	10.0	1.6
	Family / carer	37.5	43.6	14.3	4.6	43.0	44.3	10.5	2.3
Unstable	Pain	28.4	34.0	27.4	10.2	31.6	32.0	24.8	11.7
	Other symptoms	13.6	35.9	39.4	11.1	16.1	36.1	35.1	12.8
	Psychological / spiritual	29.9	45.4	20.6	4.1	27.5	45.4	21.3	5.8
	Family / carer	34.9	34.9	24.0	6.3	30.0	42.3	21.3	6.3
Deteriorating	Pain	36.0	42.6	17.4	3.9	39.0	36.6	19.0	5.4
	Other symptoms	21.0	46.3	26.3	6.3	18.4	41.9	31.8	7.9
	Psychological / spiritual	31.4	51.2	13.7	3.7	30.0	47.6	18.5	3.9
	Family / carer	29.3	44.9	19.2	6.6	29.4	42.9	21.9	5.8
Terminal	Pain	37.1	42.7	15.9	4.3	51.2	31.7	13.3	3.9
	Other symptoms	29.8	48.5	15.3	6.4	37.1	35.1	20.1	7.8
	Psychological / spiritual	53.6	36.9	8.6	0.9	53.4	32.6	10.8	3.2
	Family / carer	22.6	47.2	19.6	10.6	26.0	38.6	25.3	10.0

**Table 30 Profile of PCPSS at beginning of phase by phase type –community setting (percentages)**

Phase type		SA Services				All Services			
	Problem severity	Absent	Mild	Moderate	Severe	Absent	Mild	Moderate	Severe
Stable	Pain	37.4	52.1	9.6	0.9	40.8	51.4	7.3	0.6
	Other symptoms	16.4	61.4	20.0	2.2	16.1	66.5	16.1	1.3
	Psychological / spiritual	30.2	53.6	14.4	1.9	30.4	59.3	9.4	0.9
	Family / carer	25.2	54.4	17.5	2.9	30.6	54.0	13.7	1.6
Unstable	Pain	19.9	27.8	31.5	20.8	18.7	29.8	33.9	17.5
	Other symptoms	1.4	23.4	51.4	23.9	5.0	28.0	49.6	17.4
	Psychological / spiritual	15.5	40.2	31.5	12.8	12.4	46.5	34.0	7.1
	Family / carer	10.2	32.0	42.7	15.0	11.9	37.1	41.1	9.9
Deteriorating	Pain	24.9	51.8	19.8	3.6	29.2	49.3	19.0	2.4
	Other symptoms	4.4	47.7	38.1	9.8	8.3	50.7	37.1	4.0
	Psychological / spiritual	16.5	54.1	22.6	6.7	19.1	59.0	19.9	2.0
	Family / carer	11.6	46.2	32.4	9.8	17.4	51.3	27.3	3.9
Terminal	Pain	40.2	43.2	15.2	1.5	37.6	43.3	16.0	3.1
	Other symptoms	25.6	38.8	24.0	11.6	23.4	43.6	26.4	6.6
	Psychological / spiritual	60.3	26.0	12.2	1.5	43.6	40.8	13.0	2.6
	Family / carer	9.3	42.6	36.4	11.6	11.4	43.2	36.7	8.7

The Symptom Assessment Scale (SAS) is a patient rated (or proxy) assessment tool and reports a level of distress using a numerical rating scale from 0 - no distress to 10 - worst possible distress. The SAS reports on distress from seven symptoms, these being difficulty sleeping, appetite problems, nausea, bowel problems, breathing problems, fatigue and pain. It provides a clinical picture of these seven symptoms from the patient's perspective. The SAS scores are grouped in Table 31 and Table 32 on the following pages using the same categories as the PCPSS i.e. absent (0), mild (1-3), moderate (4-7) and severe (8-10). Alternative graphical representations of the SAS profile by phase type can be found in Appendix B.

**Table 31 Profile of SAS scores at beginning of phase by phase type – inpatient setting (percentages)**

Phase type	Symptom distress	SA				All Services			
		0 (Absent)	1-3 (Mild)	4-7 (Moderate)	8-10 (Severe)	0 (Absent)	1-3 (Mild)	4-7 (Moderate)	8-10 (Severe)
Stable	Difficulty sleeping	59.5	20.9	15.4	4.2	69.4	17.1	11.1	2.5
	Appetite problems	51.0	21.9	20.6	6.5	58.0	22.3	16.6	3.1
	Nausea	76.8	11.3	10.0	1.9	80.3	12.4	6.2	1.1
	Bowel problems	54.3	21.5	20.6	3.5	63.6	20.6	12.9	2.9
	Breathing problems	58.2	19.9	18.3	3.5	66.4	17.6	12.6	3.4
	Fatigue	24.4	26.0	43.4	6.1	31.1	26.6	35.2	7.1
	Pain	36.0	36.7	24.8	2.6	46.6	31.3	19.4	2.8
Unstable	Difficulty sleeping	43.8	21.9	28.6	5.7	59.0	18.3	17.0	5.7
	Appetite problems	36.1	23.0	29.8	11.0	45.3	21.5	25.2	8.0
	Nausea	59.9	15.1	14.6	10.4	68.0	14.2	13.2	4.6
	Bowel problems	42.9	24.1	24.6	8.4	53.7	20.9	18.4	7.0
	Breathing problems	51.0	18.8	18.2	12.0	57.8	17.1	17.6	7.5
	Fatigue	13.5	19.7	51.8	15.0	23.7	19.9	41.3	15.1
	Pain	25.4	29.5	31.6	13.5	32.2	26.8	29.3	11.6
Deteriorating	Difficulty sleeping	61.0	19.8	14.3	5.0	72.4	13.9	11.3	2.4
	Appetite problems	52.6	24.8	18.8	3.8	55.0	19.4	19.5	6.1
	Nausea	76.2	9.5	10.5	3.8	77.7	10.8	8.8	2.7
	Bowel problems	54.2	27.3	15.4	3.0	62.1	19.8	14.2	3.9
	Breathing problems	50.0	23.6	19.1	7.3	59.1	17.7	16.9	6.3
	Fatigue	26.8	21.8	41.9	9.5	30.3	17.7	37.9	14.1
	Pain	33.6	35.3	24.3	6.8	39.9	30.0	24.3	5.8
Terminal	Difficulty sleeping	90.8	5.3	3.5	0.4	92.1	3.8	3.2	0.9
	Appetite problems	93.0	3.9	1.8	1.3	89.8	3.9	4.0	2.3
	Nausea	93.9	4.4	1.8	0.0	94.1	3.0	2.3	0.6
	Bowel problems	85.8	7.5	6.2	0.4	85.7	7.9	5.1	1.4
	Breathing problems	66.5	11.7	17.4	4.3	71.2	12.3	11.6	4.9
	Fatigue	73.8	4.4	13.3	8.4	75.8	5.9	10.4	7.8
	Pain	47.2	27.1	23.1	2.6	59.5	22.4	15.1	3.0

**Table 32 Profile of SAS scores at beginning of phase by phase type –community setting (percentages)**

Phase type	Symptom distress	SA Services				All Services			
		0 (Absent)	1-3 (Mild)	4-7 (Moderate)	8-10 (Severe)	0 (Absent)	1-3 (Mild)	4-7 (Moderate)	8-10 (Severe)
Stable	Difficulty sleeping	49.9	31.5	15.9	2.7	63.2	26.5	9.4	0.9
	Appetite problems	37.1	36.2	22.2	4.4	49.2	33.4	15.1	2.3
	Nausea	72.6	21.2	5.3	0.9	80.4	15.8	3.4	0.5
	Bowel problems	48.2	35.6	13.7	2.5	66.4	25.8	6.8	1.0
	Breathing problems	43.7	33.6	20.3	2.3	54.3	30.6	13.3	1.8
	Fatigue	12.1	29.3	48.8	9.8	15.1	35.7	43.9	5.3
	Pain	33.7	45.0	19.2	2.1	43.8	42.3	12.6	1.2
Unstable	Difficulty sleeping	25.8	25.8	34.3	14.1	43.0	26.7	24.2	6.1
	Appetite problems	26.8	25.4	29.1	18.8	32.2	26.8	30.9	10.0
	Nausea	52.1	28.2	16.0	3.8	60.3	18.7	15.2	5.8
	Bowel problems	35.5	34.1	22.4	7.9	51.2	26.8	16.8	5.3
	Breathing problems	37.0	26.9	28.2	7.9	44.9	28.1	20.7	6.3
	Fatigue	9.0	18.5	46.9	25.6	8.9	20.8	52.6	17.8
	Pain	19.1	18.6	42.8	19.5	20.2	23.9	37.7	18.2
Deteriorating	Difficulty sleeping	41.1	30.3	23.7	4.9	57.4	26.9	13.9	1.7
	Appetite problems	25.9	29.2	32.7	12.1	39.8	32.4	23.0	4.8
	Nausea	62.7	24.5	10.0	2.8	72.8	19.0	7.2	1.1
	Bowel problems	38.5	36.9	20.7	3.9	60.3	26.9	11.1	1.6
	Breathing problems	37.3	30.7	26.3	5.6	47.9	30.7	18.7	2.6
	Fatigue	6.0	20.0	47.3	26.7	12.2	23.0	52.3	12.4
	Pain	23.4	40.8	29.5	6.3	33.2	39.5	24.0	3.3
Terminal	Difficulty sleeping	80.2	12.7	6.3	0.8	75.8	13.3	9.0	1.9
	Appetite problems	80.0	7.2	4.8	8.0	79.0	7.5	6.2	7.3
	Nausea	80.0	13.6	4.8	1.6	83.9	10.8	4.6	0.7
	Bowel problems	66.7	15.9	15.9	1.6	73.2	18.0	7.8	1.0
	Breathing problems	47.7	26.6	19.5	6.3	55.7	24.0	16.1	4.2
	Fatigue	52.4	6.5	16.1	25.0	58.4	7.0	15.6	19.0
	Pain	33.3	43.4	19.4	3.9	40.2	35.0	21.3	3.5

The Australia-modified Karnofsky Performance Status (AKPS) is a measure of the patient's overall performance status or ability to perform their activities of daily living. It is a single score between 0 and 100 assigned by a clinician based on observations of a patient's ability to perform common tasks relating to activity, work and self-care.

Table 33 shows the data for the AKPS at phase start.

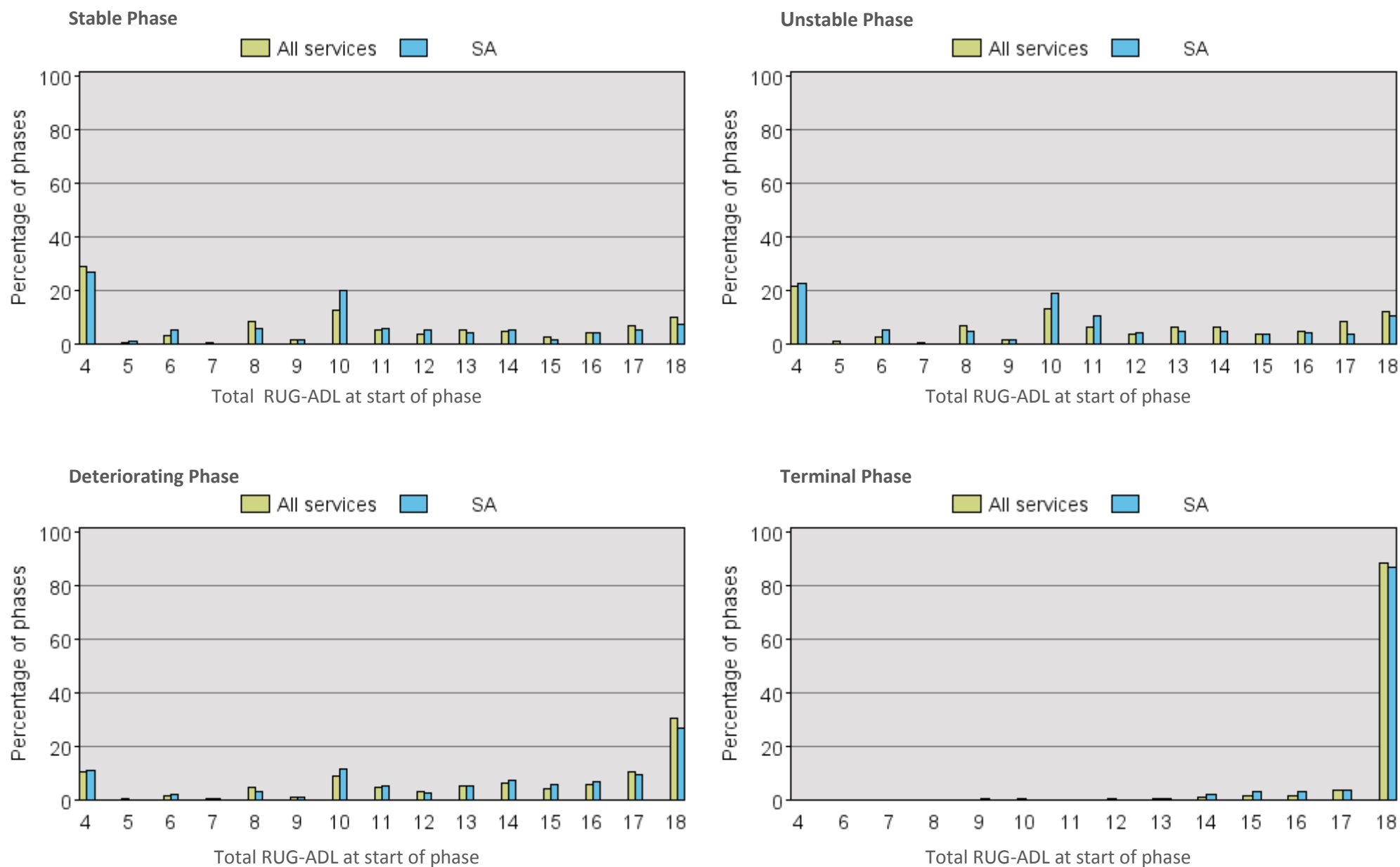
**Table 33 Australia-modified Karnofsky Performance Status (AKPS) at phase start by setting**

AKPS assessment at phase start	Inpatient				Community			
	SA Services		All Services		SA Services		All Services	
	N	%	N	%	N	%	N	%
10 - Comatose or barely rousable	133	11.4	3,099	10.5	54	2.9	915	3.4
20 - Totally bedfast and requiring extensive nursing care	239	20.4	6,617	22.5	142	7.6	2,569	9.7
30 - Almost completely bedfast	161	13.8	3,735	12.7	130	7.0	1,906	7.2
40 - In bed more than 50% of the time	200	17.1	5,608	19.0	292	15.6	3,438	13.0
50 - Requires considerable assistance	258	22.1	4,971	16.9	560	30.0	6,369	24.0
60 - Requires occasional assistance	139	11.9	3,053	10.4	462	24.7	6,553	24.7
70 - Cares for self	16	1.4	657	2.2	154	8.2	3,168	11.9
80 - Normal activity with effort	7	0.6	209	0.7	51	2.7	741	2.8
90 - Able to carry on normal activity; minor signs or symptoms	5	0.4	76	0.3	14	0.7	135	0.5
100 - Normal; no complaints; no evidence of disease	0	0.0	2	0.0	1	0.1	11	0.0
Not stated/inadequately described	12	1.0	1,432	4.9	8	0.4	727	2.7
<b>Total</b>	<b>1,170</b>	<b>100.0</b>	<b>29,459</b>	<b>100.0</b>	<b>1,868</b>	<b>100.0</b>	<b>26,532</b>	<b>100.0</b>

The Resource Utilisation Groups – Activities of Daily Living (RUG-ADL) consists of four items (bed mobility, toileting, transfers and eating) and assesses the level of functional dependence. The RUG-ADL are assessed daily (or at each visit) and are reported on admission, when the phase changes and at discharge. Figure 19 and Figure 20 on the following two pages summarise the total RUG-ADL at the beginning of each phase for inpatients and community patients. The total score on the RUG-ADL ranges from a minimum of 4 (lowest level of functional dependency) to a maximum of 18 (highest level of functional dependency).

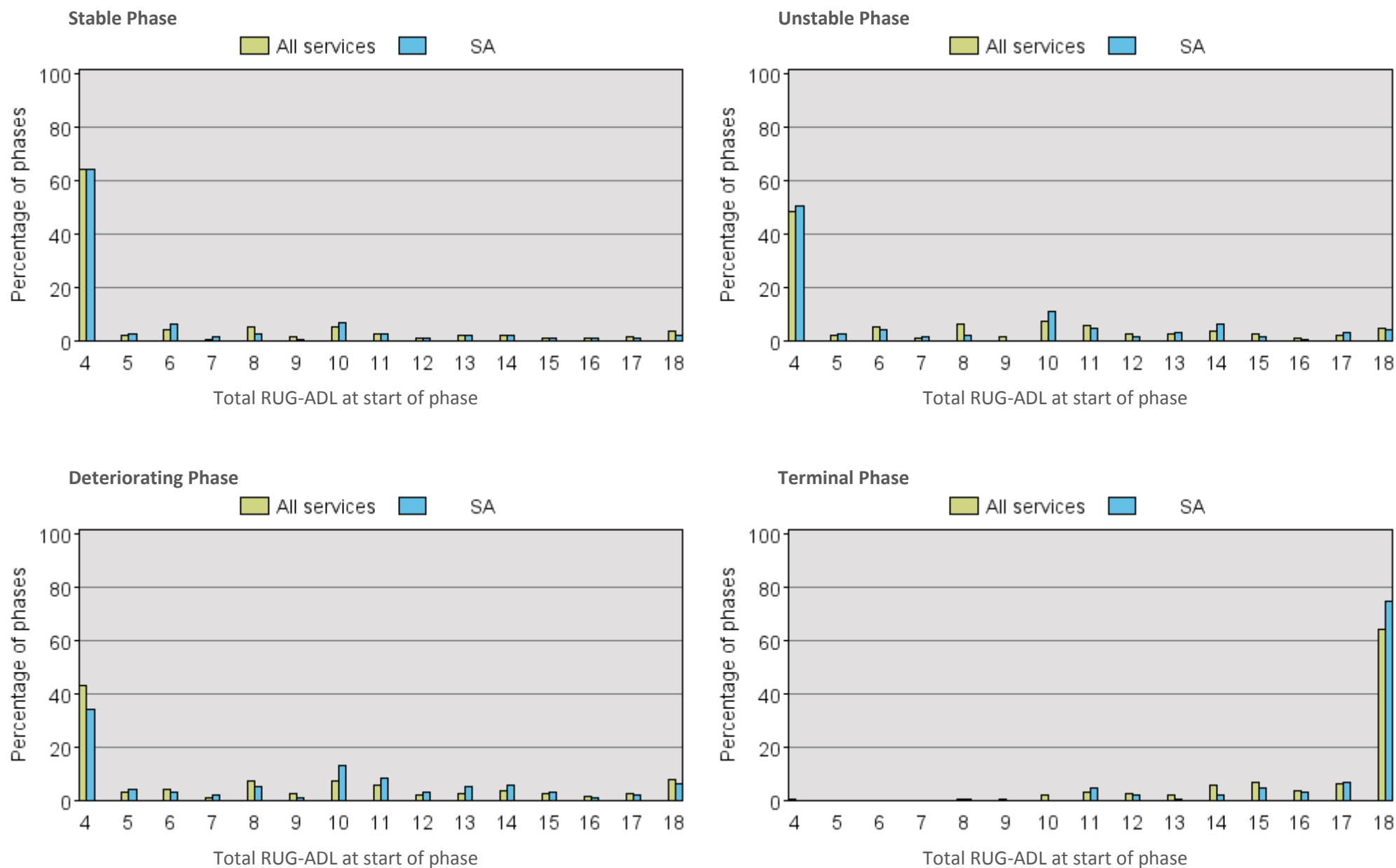
AKPS & RUG-ADL can be used together to provide a profile of both patient dependency, equipment requirements, need for allied health referrals and carer burden/respite requirements.

**Figure 19 Total RUG-ADL at beginning of phase by phase type – inpatient setting**





**Figure 20 Total RUG-ADL at beginning of phase by phase type – community setting**



## Appendix A Summary of data included in this report

### A1 Data summary

During the reporting period, data were provided for a total of 19,220 patients who between them had 24,180 episodes of care and 55,991 palliative care phases. These total numbers are determined by a data scoping method. This method looks at the phase level data first and includes all phases that ended within the current reporting period. The associated episodes and patients are then determined (Appendix C contains a more detailed explanation of this process). Table 34 shows the number of patients, episodes and phases included in this report – both for South Australian services and nationally.

**Table 34** *Number and percentage of patients, episodes and phases by setting*

	Inpatient		Community		Total	
	SA Services	All Services	SA Services	All Services	SA Services	All Services
Number of patients*	451	10,692	1,053	9,391	1,315	19,220
Number of episodes	529	12,464	1,248	11,716	1,777	24,180
Number of phases**	1,170	29,459	1,868	26,532	3,038	55,991
Percentage of patients*	34.3	55.6	80.1	48.9	100	100
Percentage of episodes	29.8	51.5	70.2	48.5	100	100
Percentage of phases	38.5	52.6	61.5	47.4	100	100
Average number of phases per episode***	2.2	2.3	1.5	2.1	1.8	2.3

\* Patients seen in both settings are only counted once in the total column and hence numbers/percentages may not add to the total.

\*\* Bereavement phases are excluded from this count.

\*\*\* Average number of phases per episode is only calculated for closed episodes that started and ended within the reporting period and excludes bereavement phases.

Table 35 shows the number of completed episodes and phases by setting for each month in the current reporting period for South Australian services.

**Table 35 Number of completed episodes and phases by month and setting**

		Jan	Feb	Mar	Apr	May	Jun
Inpatient	No. of completed episodes	80	81	79	85	103	88
	No. of completed phases	185	174	194	215	216	186
Community	No. of completed episodes	196	170	195	214	181	174
	No. of completed phases	318	277	329	357	301	286

Table 36 shows the number of patients, episodes and phases for South Australian services over time and is reported by setting of care.

**Table 36 Number of patients, episodes and phases by setting and reporting period**

	Inpatient						Community					
	Jul-Dec 2012	Jan-Jun 2013	Jul-Dec 2013	Jan-Jun 2014	Jul-Dec 2014	Jan-Jun 2015	Jul-Dec 2012	Jan-Jun 2013	Jul-Dec 2013	Jan-Jun 2014	Jul-Dec 2014	Jan-Jun 2015
Number of patients*	648	0	621	713	701	451	571	0	533	677	745	1053
Number of episodes	825	0	762	852	819	529	647	0	603	789	900	1,248
Number of phases**	1,686	0	1,600	1,708	1,611	1,170	1,121	0	988	1,204	1,380	1,868
Average number of phases per episode***	2.0	na	2.1	2.0	2.0	2.2	1.7	na	1.6	1.5	1.4	1.5

\* Patients seen in both settings are only counted once in the total column and hence numbers/percentages may not add to the total.

\*\* Bereavement phases are excluded from this count.

\*\*\* Average number of phases per episode is only calculated for closed episodes that started and ended within the reporting period and excludes bereavement phases.

## A2 Data item completion

As shown in Table 37, Table 38 and Table 39 below, the rate of data completion is very high. In reviewing these tables, it is important to note that in some cases some data items are not required to be completed. For example, place of death is only required for patients who have died. Hence the complete column in the following tables only refers to the percentage of complete records where the data item was relevant.

PCOC strongly encourages services to complete and submit the whole data set on every patient as non-completion may result in services being excluded from relevant benchmarking activities or erroneous conclusions being drawn. Low completion of data items may also distort percentages and graphs in some sections.

**Table 37 Item completion (per cent complete) - patient level**

Data item	SA Services	All Services
Date of birth	100.0	100.0
Sex	100.0	100.0
Indigenous status	88.8	97.9
Country of birth	92.0	98.5
Preferred language	94.7	99.2
Primary diagnosis	99.9	99.6

Note: This table is not split by setting to be consistent with the patient level analysis throughout this report.

**Table 38 Item completion by setting (per cent complete) - episode level**

Data item	Inpatient		Community		Total	
	SA Services	All Services	SA Services	All Services	SA Services	All Services
Date of first contact	100.0	98.9	100.0	100.0	100.0	99.4
Referral date	100.0	98.9	100.0	100.0	100.0	99.4
Referral source	99.8	99.9	99.8	99.7	99.8	99.8
Date ready for care	100.0	95.6	100.0	99.9	100.0	97.7
Mode of episode start	99.8	99.9	99.8	99.5	99.8	99.7
Accommodation at episode start	100.0	99.9	100.0	96.6	100.0	97.9
Episode end date*	98.7	99.8	94.2	94.0	95.6	97.0
Mode of episode end	99.8	99.9	99.1	99.8	99.3	99.9
Accommodation at episode end	100.0	99.3	99.0	89.9	99.5	96.8
Place of death	na	na	93.8	94.4	93.8	94.4

\* Episode end date item completion may be affected by open episodes.

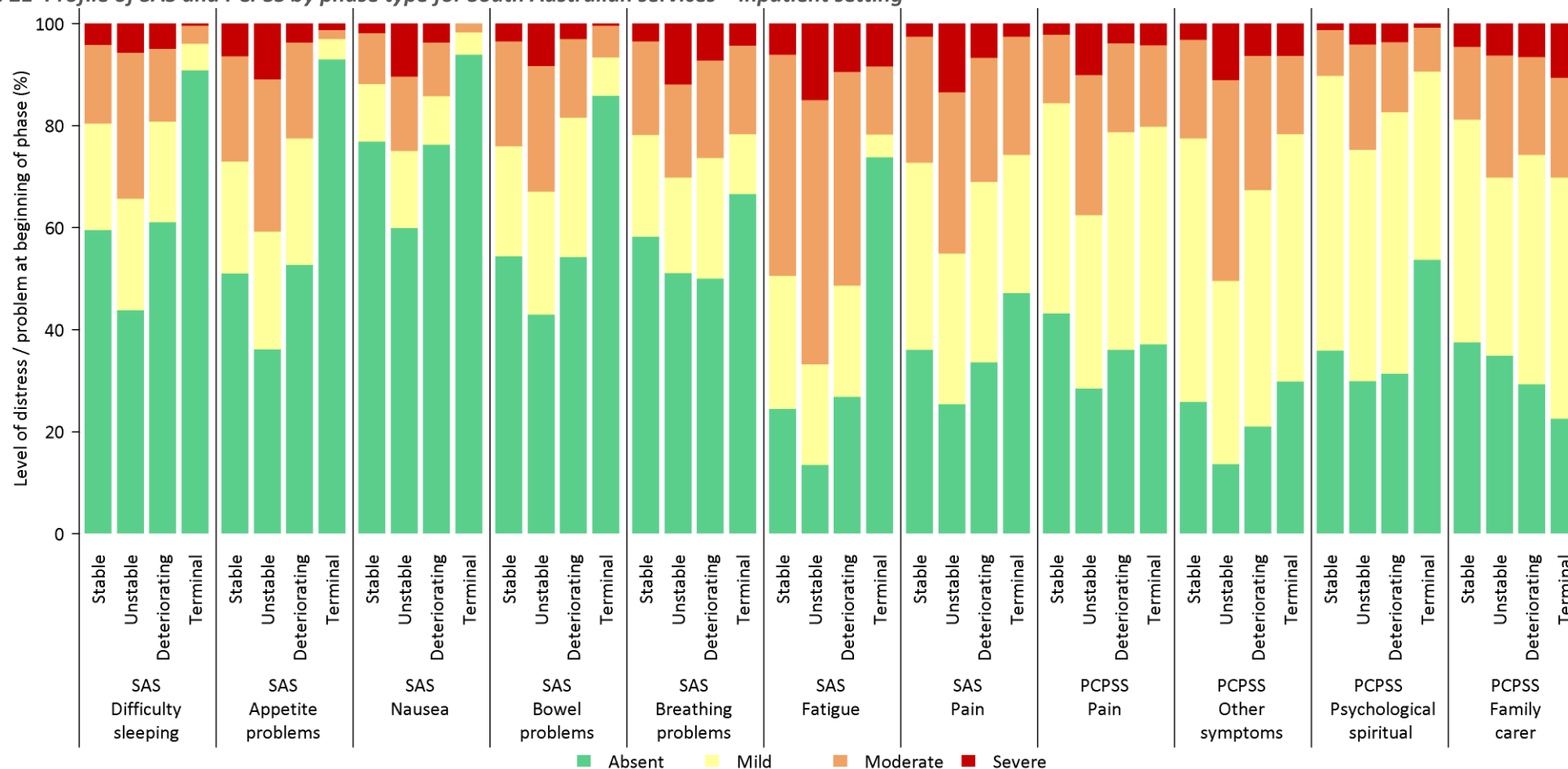
**Table 39 Item completion by setting (per cent complete) - phase level**

Data item	Sub-Category (where applicable)	At phase start						At discharge					
		Inpatient		Community		Total		Inpatient		Community		Total	
		SA Services	All Services	SA Services	All Services	SA Services	All Services	SA Services	All Services	SA Services	All Services	SA Services	All Services
RUG-ADL	Bed mobility	99.2	99.7	99.7	96.9	99.5	98.3	77.7	91.4	31.8	60.9	40.7	73.6
	Toileting	99.2	99.7	99.8	96.7	99.6	98.3	77.7	91.3	31.7	60.9	40.6	73.6
	Transfers	99.1	99.7	99.7	96.5	99.5	98.2	77.2	91.3	31.7	60.8	40.5	73.6
	Eating	96.7	99.4	99.7	95.8	98.6	97.7	77.2	91.3	31.7	60.6	40.5	73.4
PCPSS	Pain	98.3	99.1	98.9	96.9	98.7	98.1	77.7	91.0	29.9	60.4	39.2	73.2
	Other symptom	98.5	97.4	98.3	95.0	98.4	96.2	77.7	90.0	30.0	59.7	39.3	72.3
	Psychological / spiritual	98.0	99.3	98.9	96.2	98.6	97.9	77.7	91.0	30.1	60.1	39.3	73.0
	Family / carer	96.6	98.0	95.7	95.3	96.0	96.7	74.1	87.7	29.4	59.9	38.1	71.5
SAS	Difficulty sleeping	96.7	93.9	98.0	92.9	97.5	93.4	78.2	79.6	30.4	57.2	39.6	66.6
	Appetite problems	96.4	94.1	97.9	95.1	97.3	94.6	77.7	80.2	30.8	59.3	39.9	68.0
	Nausea	96.6	94.1	98.1	96.2	97.5	95.1	77.7	79.6	30.6	60.0	39.7	68.2
	Bowel problems	96.0	94.0	98.0	95.2	97.2	94.5	77.7	80.1	30.4	58.9	39.5	67.8
	Breathing problems	96.7	94.2	98.4	95.6	97.7	94.8	77.7	79.9	30.7	59.5	39.8	68.0
	Fatigue	96.4	94.1	97.7	96.2	97.2	95.1	77.7	80.5	30.7	60.2	39.8	68.7
	Pain	96.8	94.2	98.4	97.4	97.8	95.7	77.7	80.5	31.3	61.0	40.3	69.1
AKPS	-	99.0	95.1	99.6	97.3	99.3	96.1	77.2	89.4	39.2	63.0	46.5	74.1

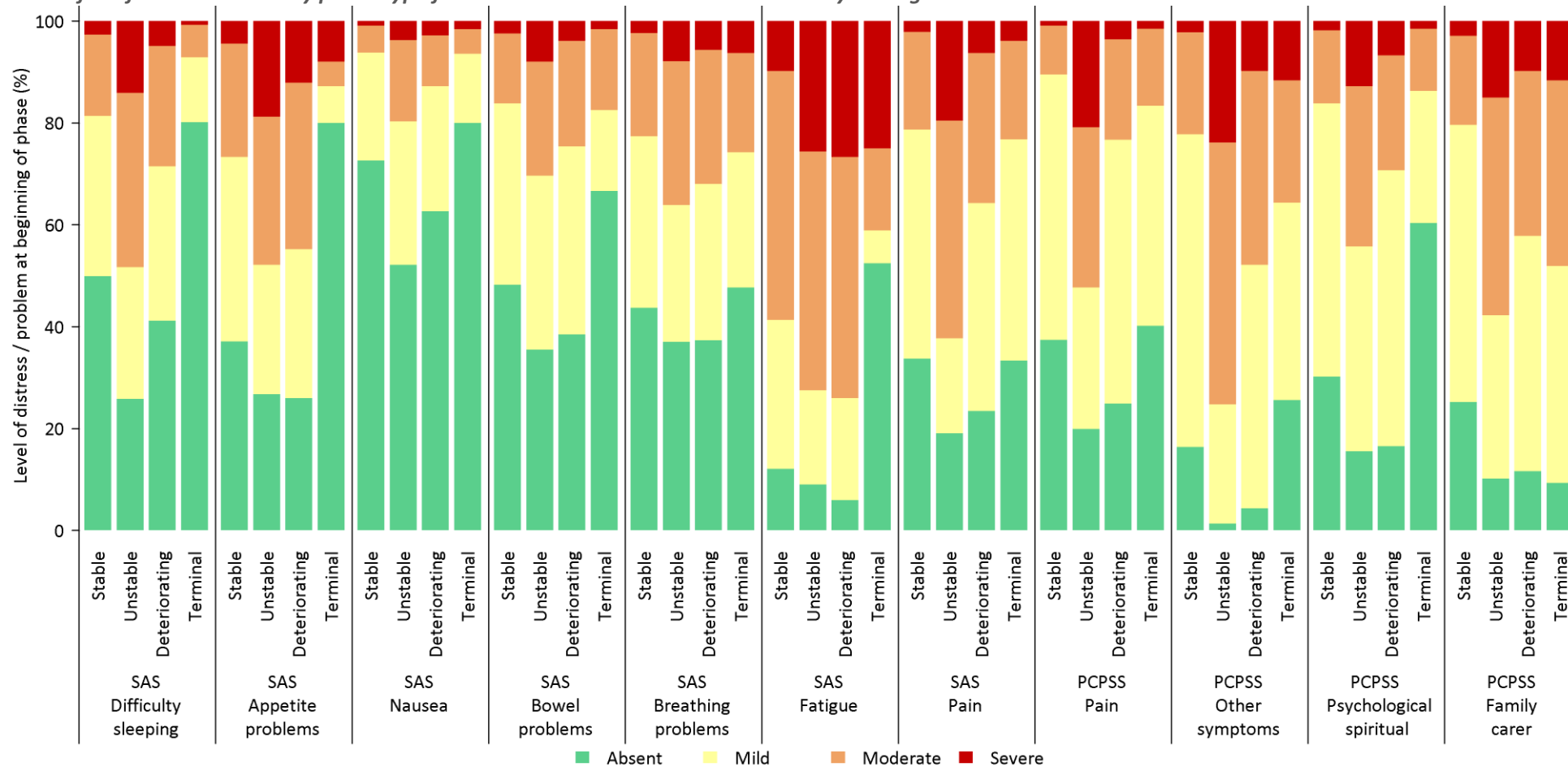
Data item	Inpatient		Community		Total	
	SA Services	All Services	SA Services	All Services	SA Services	All Services
Phase End Reason	99.5	99.9	95.5	99.5	97.0	99.7

## Appendix B Additional information on profile of SAS and PCPSS

Figure 21 Profile of SAS and PCPSS by phase type for South Australian services – inpatient setting



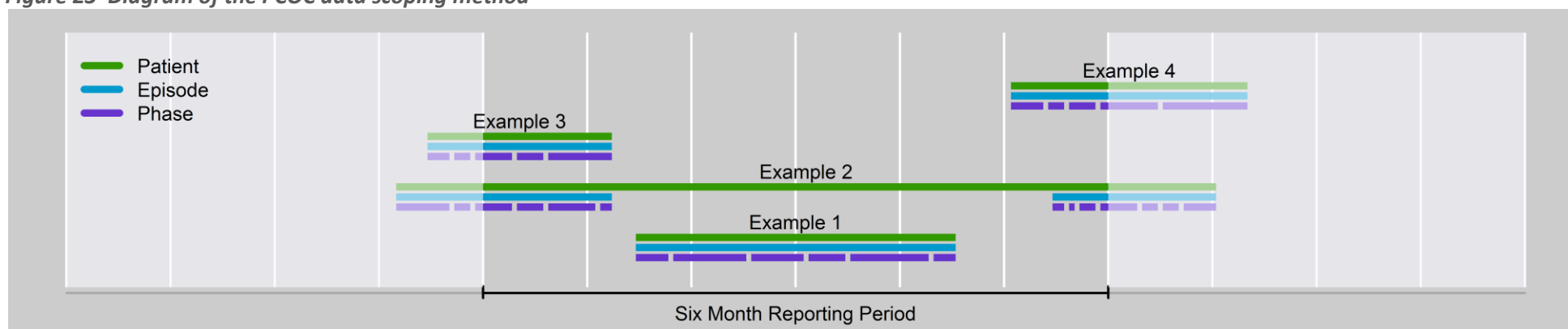
**Figure 22 Profile of SAS and PCPSS by phase type for South Australian services – community setting**



## Appendix C Data scoping method

The method used to determine which data is included in a PCOC report looks at the phase level records first. All phase records that end within the 6 month reporting period are deemed to be “in scope” and would be included in the report. The episode and patient records associated with these phases are also deemed to be “in scope” and hence would also be included in the report. Figure 23 below displays four examples to help visualize this process.

**Figure 23** *Diagram of the PCOC data scoping method*



In Example 1, the patient (represented by the green line) has one episode (represented by the blue line). This episode has six phases (represented by the purple line segments). All six phases would be included in the report as they all end within the reporting period. Hence, the episode and patient would also be in the report.

In Example 2, the patient has two episodes - the first having six phases and the second having seven phases. Looking at the phases associated with the first episode, the last four will be included in the report (as they end within the reporting period). The first two phases would have been included in the previous report. For the phases relating to the second episode, only the first three end within the reporting period, so only these would be included in the report. The following four phases would be included in the next report. Both of the episode records and the patient record would also be included in the report.

In Example 3, the patient has one episode and five phases. Only the last three phases will be included in the report as they are the only ones ending within the reporting period (the first two phases would have been included in the previous report). The episode and patient records would be included in the report.

In Example 4, the patient again has one episode and five phases. This time, only the first three phases will be included in the report (the last two phases will be included in the next report). Again, the episode and patient records would be included in the report.



## Appendix D Palliative Care Phase definitions

START	END
<b>1. Stable</b>	
<p>Patient problems and symptoms are adequately controlled by established plan of care <b>and</b></p> <ul style="list-style-type: none"> <li>Further interventions to maintain symptom control and quality of life have been planned <b>and</b></li> <li>Family / carer situation is relatively stable and no new issues are apparent.</li> </ul>	<p>The needs of the patient and / or family / carer increase, requiring changes to the existing plan of care.</p>
<b>2. Unstable</b>	
<p>An urgent change in the plan of care or emergency treatment is required <b>because</b></p> <ul style="list-style-type: none"> <li>Patient experiences a new problem that was not anticipated in the existing plan of care, <b>and / or</b></li> <li>Patient experiences a rapid increase in the severity of a current problem; <b>and / or</b></li> <li>Family / carers circumstances change suddenly impacting on patient care.</li> </ul>	<ul style="list-style-type: none"> <li>The new plan of care is in place, it has been reviewed and no further changes to the care plan are required. This does not necessarily mean that the symptom / crisis has fully resolved but there is a clear diagnosis and plan of care (i.e. patient is stable or deteriorating) <b>and / or</b></li> <li>Death is likely within days (i.e. patient is now terminal).</li> </ul>
<b>3. Deteriorating</b>	
<p>The care plan is addressing anticipated needs but requires periodic review <b>because</b></p> <ul style="list-style-type: none"> <li>Patients overall functional status is declining <b>and</b></li> <li>Patient experiences a gradual worsening of existing problem <b>and / or</b></li> <li>Patient experiences a new but anticipated problem <b>and / or</b></li> <li>Family / carers experience gradual worsening distress that impacts on the patient care.</li> </ul>	<ul style="list-style-type: none"> <li>Patient condition plateaus (i.e. patient is now stable) <b>or</b></li> <li>An urgent change in the care plan or emergency treatment <b>and / or</b></li> <li>Family / carers experience a sudden change in their situation that impacts on patient care, and urgent intervention is required (i.e. patient is now unstable) <b>or</b></li> <li>Death is likely within days (i.e. patient is now terminal).</li> </ul>
<b>4. Terminal</b>	
<p>Death is likely within days.</p>	<ul style="list-style-type: none"> <li>Patient dies <b>or</b></li> <li>Patient condition changes and death is no longer likely within days (i.e. patient is now stable or deteriorating).</li> </ul>
<b>5. Bereavement – post death support</b>	
<ul style="list-style-type: none"> <li>The patient has died</li> <li>Bereavement support provided to family / carers is documented in the deceased patient's clinical record.</li> </ul>	<ul style="list-style-type: none"> <li>Case closure</li> </ul> <p>Note: If counselling is provided to a family member or carer, they become a client in their own right.</p>

## Acknowledgements

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<i>Disclaimer</i>	PCOC has made every effort to ensure that the data used in this report are accurate. Data submitted to PCOC are checked for anomalies and services are asked to re-submit data prior to the production of the PCOC report. We would advise readers to use their professional judgement in considering all information contained in this report.
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